Exhibit 10

RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

March 26, 2024

Mr. Kevin Hynes
King & Spalding LLP
1185 6th Avenue
New York, NY 10036

Re: Expert Report of Matthew Sanchez PhD in the matter of *Diana Balderrama and Gilbert Balderrama v. Johnson & Johnson, et al.,* Atlantic County, New Jersey, No.: ATL-L-006540-14.

Summary

I respectfully submit this report on behalf of Johnson & Johnson. I have been asked to opine concerning the alleged contamination of asbestos in talc products manufactured by Johnson & Johnson using talc from Val Germanasca Italy, southern Vermont USA, and Guangxi China. I have reviewed the scientific literature regarding both the talc mines at issue as well as any testing on talc products manufactured by Johnson & Johnson, as well as government and private industry records relative to the testing of above products for the presence of asbestos. It is my opinion that Johnson & Johnson talcum based products do not contain asbestos.

Talc Is Not Asbestos

Talc is used in a wide variety of commercial applications, ranging from pharmaceuticals and cosmetics to ceramics, paints, paper and asphalt roofing. In its purest form, talc is a mineral and is defined as a magnesium silicate, with composition $Mg_3Si_4O_{10}(OH)_2$. The end-uses for talc are determined by variables such as bulk composition, particle size and shape, specific gravity, hardness, and color.

Asbestos

Asbestos is a collective term that describes a regulated group of six naturally occurring, highly fibrous silicate minerals that form as fiber bundles, which are easily separated into long, thin, flexible fibers when crushed. The six minerals that, when crystallized in a rare asbestiform habit, are regulated as asbestos fall into two groups of minerals: serpentine and amphibole. Talc is not one of these minerals and is not asbestos regardless of morphological habit.

Serpentine and amphibole minerals crystallize or grow in both a rare asbestiform and more common non-asbestiform habits. The asbestiform varieties of these minerals are rare and likely accounts for less than one percent of the known world occurrences of each mineral (Krause 1977 and Campbell et al. 1977). Serpentine and amphibole minerals with a non-asbestiform habit and resulting morphological properties are not asbestos. The table below shows the asbestiform and

non-asbestiform habit of each serpentine and amphibole mineral associated with term asbestos."[1]

Mineral Family	Asbestiform	Non-Asbestiform
Serpentine	Chrysotile	Antigorite/Lizardite
Amphibole	Crocidolite	Riebeckite
Amphibole	Amosite	Grunerite-Cummingtonite
Amphibole	Tremolite Asbestos	Tremolite
Amphibole	Anthophyllite Asbestos	Anthophyllite
Amphibole	Actinolite Asbestos	Actinolite

It is possible that talc may contain either serpentine and/or amphibole group minerals, e.g. tremolite, however, to have asbestos one must determine if the amphibole present is the asbestiform variety. The mere presence of any amphibole mineral is not the same as asbestos contamination. Analysis must determine if these minerals are in fact asbestiform and thus asbestos.

It is true that some talc deposits can contain asbestos and some asbestos deposits can contain talc; for example, talc is a common accessory mineral in some chrysotile deposits, however the specific geologic processes that control the formation of minerals of any given talc deposit are unique and control the potential for asbestos contamination in that talc ore. Thus, if the question of asbestos contamination in any talc or talc-containing product is to be answered, the source mine(s) of that talc needs to be identified and specific facts concerning that deposit and talc product derived from that deposit must be evaluated. Thus, not all talc derived from a talc source with the potential for contamination would be contaminated with asbestos.

Serpentine, amphibole, talc, or other mineral group or species, if present as elongated fragments, (whether defined by > 3:1 and > 5mm lengths or > 5:1 aspect ratio and > 0.5mm lengths) are not the same thing as a finding of asbestiform habit and resulting microscopic morphology. IARC 2010 states regarding talc and its asbestiform variety (page 279):

"Description: Commonly thin tabular crystals, up to 1 µm in width; talc is usually massive, fine-grained and compact; it also occurs as foliated or fibrous masses or in globular stellate groups. Talc particles are normally thin and plate-like, but the size of the individual plates varies among different bodies of ore. When viewed under the microscope on end, talc platelets may appear as fibres (Cralley et al., 1968). These are not true fibres and should not be confused with asbestiform talc. Asbestiform talc is formed when talc plates elongate parallel to the a axis within the plate to

[1] See 40CFR§763.83, 29CFR§1910.1001, 30CFR§56.5001, 1977 Federal Register CPSC Vol. 42, and No. 146, 1974 Federal Register US BOM Vol. 39, No. 127 part IV.

form true ribbon-like fibres of talc. These fibres may occur in an asbestiform habit consisting of bundles of narrow fibres randomly oriented around the axis of elongation (c axis)".

Thus, in order for talc to be asbestiform it has to have formed in this habit. Furthermore, IARC 2012 states (pg 221):
"The structure of silicate minerals may be fibrous or non-fibrous. The terms 'asbestos' or 'asbestiform minerals' refer only to those silicate minerals that occur in polyfilamentous bundles, and that are composed of extremely flexible fibres with a relatively small diameter and a large length. These fibre bundles have splaying ends, and the fibres are easily separated from one another (USGS, 2001; HSE, 2005)."

The only generally accepted testing methodologies to determine if a sample is composed of minerals with an asbestifrom habit are those put forward and described in OSHA ID 191, EPA600/R-93/116, and ISO 22262-1. Thus, in order to have asbestiform talc, the observed talc must not simply be elongated but must meet the requirements of the asbestiform morphology. Last, IARC 2012 is clear in its warning of how these terms have been misapplied in the literature (pg 230):

"Talc containing asbestiform fibres is a term that has been used inconsistently in the literature. In some contexts, it applies to talc containing asbestiform fibres of talc or talc intergrown on a nanoscale with other minerals, usually anthophyllite. In other contexts, the term asbestiform talc has erroneously been used for talc products that contain asbestos. Similarly, the term asbestiform talc has erroneously been used for talc products that contain elongated mineral fragments that are not asbestiform. These differences in the use of the same term must be considered when evaluating the literature on talc. For a more detailed evaluation of talc not containing asbestiform fibres, refer to the previous IARC Monograph (IARC, 2010)".

Non-talc minerals do occur within talc deposits. Those minerals are often referred to as "accessory minerals" and typically include chlorite and dolomite. If asbestos were present in talc, it would be considered an accessory mineral. Several things must happen for asbestos contamination to occur in a finished talc-containing product, which I outline in general terms in the following paragraphs.

- First, asbestos must be present in the area being mined. Then, the miners must include non-talc rock with the talc as it is being mined, and this non-talc rock must contain asbestos. Talc veins are often up to several meters thick, and not all talc that is mined will contain non-talc rock; most will not.
- Second, at least some of the non-talc rock that is mined with the talc must contain asbestos.
- Third, the non-talc rock, which contains asbestos, must survive the milling processes that are designed to remove impurities from the talc. For example, hand sorting, mechanical

screening, froth flotation, and other separation (also known as "beneficiation") techniques are used to remove impurities.

- Fourth, among the tons of product that is mined and sold to customers, the particular talc with asbestos contamination must reach a manufacturer of a talc or talc-containing product.
- Fifth, among the tons of product sold to the manufacturer, the particular talc with trace asbestos contamination must be placed into a container (one among thousands), and plaintiff must obtain that particular container.
- Sixth, this process must be repeated over and over for plaintiff to have repeated exposure to a talc or talc-containing product contaminated with asbestos.

From a mineralogical/geological perspective, even in the instances where asbestos contamination could occur, e.g. a particular mine where asbestos at times has been detected during quality assurance testing, this contamination would be a sporadic event. Thus, in order to determine if the plaintiff was exposed to asbestos contaminated talc, the actual containers of a given product would need to be tested.

Val Germanasca, Italy

I understand that Val Germanasca, Italy was a source mine used for Johnson & Johnson's talcum powder. I have evaluated the scientific literature related to the geology of the talc formations in Val Germanasca. I have personally visited the mine and mill and conducted an evaluation, which included sampling the talc ore as well as waste rock and country rock. It is my opinion that the talc mined in Val Germanasca is not contaminated with asbestos, nor has it been contaminated in the past.

As discussed by Sandrone, et al., the Val Germanasca mine is known for "high-quality cosmetic talc." R. Sandrone & S. Zuchetti, Geology of the Italian high-quality cosmetic talc from the Pinerolo district (Western Alps), Zuffar' Days – Symposium (1988).

In Pooley et al. (1972), three researchers in the Department of Mineral Exploitation at University College in Cardiff, England, conducted a mineralogical evaluation of the Val Germanasca mine. The purpose of the investigation was to try to locate non-talc minerals, including asbestos that could be found together with the talc. The researchers did not find asbestos in the talc, and even certain fibrous amphibole particles found in the rocks adjacent to the talc did not display the characteristics of asbestos when examined under the electron microscope. Pooley, F.D., et al., An Examination of Italian Mine Samples and Relevant Powders (1972).

In 1976, Dr. Pooley later wrote a letter to the FDA confirming that he found no asbestos in his testing of Italian talc. March 9, 1976 Ltr. from F. D. Pooley to R. Shapiro. In its 1992 Health Assessment Document for Talc, the EPA characterized Val Germanasca talc as "very pure" and approved of Dr. Pooley's findings. EPA Health Assessment at 3-26, 3-35. In its 2010 monograph

regarding the available mineralogical data on the asbestos content of talc, IARC likewise described the talc from Val Germanasca as "very pure" and, citing Pooley, noted that tests of this talc found no asbestos. IARC 2010 at 318. Table 1.17 shows no reports of serpentine or tremolite occurring in Italian talc. IARC 2010 at 307.

While I am not a professional epidemiologist, epidemiological studies are relevant to my opinion that the source talc mines at issue did not contain asbestos. Four epidemiological studies have followed thousands of talc miners and millers from Val Germanasca. These studies found that there were no deaths among the miners and millers as a result of mesothelioma. Rubino, et al. (1976), Rubino et al. (1979), Coggiola, et al. (2003), Pira et al. (2017), and Ciocan et al (2022). In addition there are a large number of publications which discuss the geology of the Val Germanasca region. I am not aware of any published literature in which researchers either examined the geology of the Val Germanasca region or tested samples of talc from the mine and reported that the talc contains any asbestos.

I visited the current mining and milling operations at Val Germanasca from November 9 to November 12, 2015 (report dated March 24, 2016). The focus of my visit was to (1) obtain samples from both the mining and milling operations that are representative of the current mining operation, (2) assess the current talc ore and surrounding country rock for asbestos mineralization, and (3) understand the mine's current and past programs as they relate to asbestos testing to ensure product quality. I took a total of twenty (20) samples during the site visit, which represented the talc ore, non-talc waste rock (both siliceous and carbonaceous lenticular inclusions were sampled), milled product, country rock where amphiboles were observed, and talc from both French and Chinese sources that are also milled at the Malanaggio plant. The samples were analyzed by XRD, PLM, and TEM. In no sample were chrysotile or asbestiform amphiboles observed.

Southern Vermont Talc

I understand that Johnson & Johnson used the Hammondsville, Argonaut, and Rainbow mines and potentially other mines in southern Vermont as source mines used for Johnson & Johnson's talcum powder. I have evaluated the scientific literature related to the geology of the talc formations in southern Vermont. It is my opinion that the talc mined in southern Vermont is not contaminated with asbestos, nor has it been contaminated in the past.

The development of plate tectonics last century was a unifying theory in geology. Briefly, the theory states that the earth's crust is composed of several large plates that move with respect to one another. When the plates separate, oceans form (e.g., the Atlantic Ocean) and when they collide, mountain chains are built (e.g., the Alps). Another important point is that the continental plates are lighter than ocean plates; thus, when the two collide, the ocean plate is "subducted" below the continental plate.

Currently, the east coast of North America is not geologically active; however, this was not the case in the geologic past. Over the past 600 million years this region has undergone geological development favorable to talc formation mainly by occurring at a convergent and divergent plate boundary. This caused Vermont's geology to be composed of differing rock types trending in a more or less north-south direction that formed as a result of a converging plate boundary (Van Diver, 1987 and Doolan, 1996). As these geological processes occurred ocean sediments were changed by heat and pressure into a metamorphic rock type called schist when ancestral North America collided with ancestral Africa. Next, these rocks were uplifted forming the Appalachian Mountains. During this process portions of them were also altered into a rock type known as serpentinite, and in local areas, the serpentinite was further altered to talc. Serpentinite gains its name from the fact it is composed predominantly of serpentine group minerals (all with the composition of $Mg_3Si_2O_5(OH)_4$) of which there are three: antigorite, lizardite, and chrysotile, with only the latter being an asbestos mineral.

Talc ($Mg_3Si_4O_{10}(OH)_2$) forms from alteration of other minerals. The southern Vermont talc deposits form as lower pressure and temperature metasomatic induced reactions between serpentinite and the silica rich country rock. McCarthy et al. (Table 1, 2006) noted that Vermont talc contained trace amounts of serpentine and no tremolite. Van Gosen et al. (2004) also gives a summary of talc formation and likewise points out that amphiboles only occur at higher temperatures of formation.

Even though Van Gosen et al. (2004) notes the lack of amphiboles in Vermont-style talc deposits, some clarification of his section on "Vermont talc" is needed regarding both amphibole and asbestos content of Vermont talc. He cites a paper by Zodac (1940) which notes fibrous actinolite occurs in the blackwall at the former Chester, Vermont talc deposit located in Windsor County. However, Zodac is quoted as saying the material is "needle-like;" this would preclude it being a morphological fiber of asbestos. Regardless, all of the discussion in Veblen and Burnham (1978a, 1978b) are from samples removed from the blackwall and not the talc ore itself. In the last sentence of the Vermont talc section, Van Gosen et al. state fibrous amphiboles are in the blackwall at Chester, and cite Veblen and Burnham (1978b). However, Veblen and Burnham (1978b) never mention fibrous amphiboles, but fibrous biopyriboles instead. Thus, the sentence in Van Gosen et al. (2004) should be rewritten to read: "These newly found biopyriboles represent intermediate products of incomplete reactions during the conversion of anthophyllite and cummingtonite to talc." Van Gosen has, in fact, acknowledged this rewording would be more accurate (Van Gosen personal communication). As noted above, the Chester deposit was in Windsor County, as is the former Frostbite mine. Robinson (et al. 2006) discuss the geology of the Frostbite mine and make no mention of asbestos minerals occurring in the deposit, although they note the as-expected occurrence of antigorite, a serpentine-group mineral.

To further understand the potential for Vermont talc in general and southern Vermont talc in particular to contain asbestos: 1) published literature outside of geology was sought and 2) samples of southern Vermont talc ore and Johnson & Johnson products were obtained and

characterized. Along with the geological studies noted above workers in the health-related fields became interested in Vermont talc as a method to ascertain the health effects of talc not contaminated with asbestos. McCrone (1977) undertook a study of 100 samples, with 23 from Vermont and found no asbestos in any of the Vermont samples. Boundy et al. (1979) also collected samples and found no asbestos in any samples from three operating talc mines in Vermont. Dr. Gunter obtained seven samples of talc from the Argonaut Mine and Buzon (2016) determined, by X-ray powder diffraction, that all seven were asbestos free.

I was provided hundreds of internal documents from Johnson & Johnson from the different mines and mills in southern Vermont. The clear majority of these reports and testing documents found talc ore and products from this mining district to be asbestos-free. These testing results include XRD, PLM, and TEM reports from multiple independent laboratories starting in the early 1970s. However, out of the hundreds of tests performed there are some testing documents that did at first mention observing chrysotile in trace quantities, but follow-up analysis of the same samples found them to be asbestos free. There were several reasons for this, but mainly lab contamination was cited. I was aware of the testing work by Lewin as I had reviewed it earlier. Even in my earlier review, I questioned his results. In the documents provided by Johnson & Johnson, I discovered my skepticism to be correct as they had hired some of the most competent mineralogists in the world to review his work. As expected, they found considerable scientific inaccuracies with it. Finally, there was the occasional report of non-asbestiform tremolite/actinolite, but never any reports of anthophyllite.

Dr. Fred Pooley also performed an evaluation in Vermont and collected samples from both the ore footwall and hangingwall in order to characterize the minerals that would be possible contaminants of the talc ore. No asbestos was observed. In regard to amphibole and serpentine minerals he concluded:

> *"The amphibole minerals were found in discrete locations and not disseminated throughout the talc ore and were not asbestiform in character. Serpentine mineral was found in the specimens located at the centre of the orebody but no fibrous components were observed."*

Based on the past geological investigations, the geological development of the southern Vermont talc deposit, and past peer-reviewed/refereed publications, it is my opinion to a reasonable degree of scientific certainty that it appears very unlikely that asbestos occurred in these talc deposits, or in turn in products produced from them. It is also worth pointing out that many of the past testing documents need to be critically evaluated in light of the above and not taken at face value. Most certainly serpentine group minerals do occur in these deposits, but investigators mostly only reported finding the antigorite variety, as geological conditions did not favor the formation of chrysotile. The occurrence of amphiboles appears rare in the deposit, and there is no evidence that any amphiboles in the deposit, or the schist enclosing it, are asbestiform.

To further summarize, this talc deposit formed by low-temperature alteration of serpentinite, a geological condition not favorable for the formation of asbestos, but where non-asbestiform serpentine occurs. Several published studies found no asbestos in talc produced in this mining district (Blount, 1991; Boundy et al., 1979; McCrone, 1977), while to my knowledge no published study found asbestos. In fact, Vermont talc was chosen by Boundy et al. (1979) to determine the health effects to miners and millers exposure to asbestos-free talc. IARC (2010) and McCarthy et al. (2006) report no asbestos in Vermont talc.

Lastly, I have conducted testing on 15 samples collected from the Argonaut Mine collected by Professor Mickey Gunter (Sanchez report dated April 6, 2018 "Analytical Test Report of the Gunter Argonaut Samples"). No asbestos was observed in any of the talc samples. In two non-talc samples composed of primarily serpentine group minerals a trace quantity of chrysotile was observed by TEM. No asbestiform amphiboles were observed in any sample. Non-asbestiform tremolite-actinolite amphibole was the primary component of one sample, which is also not a talc sample.

Guangxi, China Talc

I understand that Guangxi, China is a source mine used for Johnson & Johnson's talcum powder. I have evaluated the scientific literature related to the geology of the talc formations in Guangxi, China. It is my opinion that the talc mined in Guangxi, China is not contaminated with asbestos, nor has it been contaminated in the past.

There are at least three major talc mining regions in China: Liaoning, Guangxi, and Shandong, in order of volume of talc produced. Each of these regions are geologically unique. Johnson & Johnson sources their talc from the Guangxi Province talcs. The talc mines are located in the mountainous regions west of Guilin City in the northern part of the Province. The geology of northern Guangxi is complex. The respective mines are located in the Danzhou Formation which is equivalent with the Banxi formation in Hunan and the Dengshan Group in Jiangxi province. These sedimentary formations were deposited in the Mesoproterozoic and deposited in a rift related basin (Wang and Li 2003). These sedimentary groups were subsequently metamorphosed to low-grade green-schist facies assemblage and folded during the Jiangnan Orogeny in the Neoproterozoic (Wang et al. 2006), and likely uplifted during the Mesozoic. The mountainous region that trends northeast and southwest to the west of the city of Guilin is also referred to as the Jiangnan old land (Yan et al. 2003). These metamorphosed sedimentary formations consist of primarily siliceous sediments composed of pelitic schists, phyllites, slates, siltstones, sandstones, conglomerates (Li, X.H. 1999), and sequences of carbonate bearing rocks (Wang and Li 2003). These carbonate rock sequences are likely the protolith for the talc bearing zones that compose the Guangxi China talc deposits.

Observed country rock (i.e. non-talc ore) in contact with the talc ore consists of quartzite and phyllitic slates. Within the mining area are veins of non-talc rocks composed of grey carbonates

(primarily dolomite) and some veining of hydrothermal quartz. They do not exhibit any fibrous mineralization. The country and non-talc rocks are removed from the talc ore prior to milling during the various stages by hand sorting. The sorting is done based on the distinct color differences between the non-talc rock and talc ore.

The talc bearing zones and talc ore consist of pale green to white and grey colored bands; the talc is the primary component of the pale green to white bands while carbonate minerals are the primary component in the grey bands.

Mining is accomplished by open pit methods and the talc ore is initially sorted at the mine prior to transportation off-site. The talc is initially screened, washed, and hand sorted based on coloration of the ore. The pale green to white ore constitutes nearly pure talc and the more grey carbonate-rich rock is either wasted or sorted into separate production lines at the mine and plant sites. The talc ore from the Guiguang mine is transported to Guilin for further beneficiation, transportation as lump talc, or milled and packaged.

Sorting of the talc from non-talc rock is primarily done by hand, this means that workers physically separate the talc from non-talc rocks. For larger rocks, they are either separated as lump talc or where they are impure, pneumatic hammers are used to break the rocks into manageable pieces for further beneficiation.

Quality Control (QC) testing of the milled talc on site is done on a routine basis. The testing involves sieving, whiteness testing, density testing, X-ray Fluorescence, wet chemistry for heavy metals, and powder X-ray diffraction (XRD). The testing conducted is in accordance with the Chinese Pharmacopeia. With regard to asbestos, XRD is used to screen for the presence of the potentially asbestos minerals serpentine and amphibole. The test method being employed is the Chinese Pharmacopeia standard GB/T15344-2012 “Methods of the Physical Test of Talc” and which the QC technicians use to screen for asbestos. Microbial testing is also performed for food and cosmetic grades of talc.

The analytical testing conducted is composed of a combination of powder X-ray diffraction (XRD), polarized light microscopy (PLM) –generally in accordance with the current United States Pharmacopeia (USP) or CTFA J4-1, and transmission electron microscopy (TEM).

In 2009, the FDA conducted off-the-shelf product sampling of cosmetic talcum powders as well as solicited USP grade talcs from talc mining and trading companies. At that time, three grades of pharmaceutical talc labeled Imperial 200, 250, and 400 USP were known to come from Guangxi. A contract laboratory on the FDA’s behalf conducted the testing and they performed PLM and TEM testing. No asbestos was detected in the three USP grade talcs submitted. In addition to these Guangxi source talcs they also tested a sample of Johnson’s Baby Powder with the result of no asbestos detected. This is relevant as Guangxi talc was the source of Johnson’s Baby Powder during this time period.

Starting in 2009, RJ Lee Group, Inc. has conducted both talc surveys and quarterly monitoring for Johnson & Johnson of Guangxi-sourced talcs. The testing incorporated the current USP talc monograph with PLM and TEM testing of each sample submitted. Results of these analyses showed no serpentine or amphibole group minerals were detected, let alone chrysotile and/or amphibole asbestos.

Additional mineralogical based testing on Guangxi-sourced talc were performed by Buzon in 2016 wherein she examined seven specimens by XRD and found no serpentine or amphibole minerals present.

Early in 2019 I undertook additional analyses of current Johnson & Johnson talc products purchased in California. A total of 12 samples were tested by XRD, PLM, and TEM methodologies. No asbestos was observed in any of the 12 bottles. Additionally, I analyzed another 10 samples of Johnson & Johnson talc products in the Shawn and Holly Johnson v. Johnson & Johnson, et al matter filed in California. No asbestos was observed in any of those 10 bottles.

Product formulation

My opinion that Johnson & Johnson talcum powder did not contain asbestos is also based upon my review of internal Johnson & Johnson documentation requiring that only talc free of asbestos be used in Johnson & Johnson's talcum powder. I have reviewed Johnson & Johnson's Raw Material Purchase Specifications, which confirm that suppliers were required to analyze each shipment of talc for asbestos content and certify that each shipment of talc was asbestos free.

Product testing record

My opinion that Johnson & Johnson's talcum powder did not contain asbestos is based on a decades-long testing record, including historical testing by Johnson & Johnson and its suppliers, independent, third-party testing, and historical government testing. Review of the entire testing record leads me to conclude Johnson & Johnson's talcum powder did not contain asbestos.

Historical testing by Johnson & Johnson and its suppliers

I have reviewed documentation regarding Johnson & Johnson's testing protocols for its talc supply. My understanding is in the early 1970s, Johnson & Johnson developed a state-of-the-art, reliable testing method and internally tested its talc supply, along with talcs never intended to be used in finished Johnson & Johnson talcum powder products, for the presence of asbestos using several different testing methods. This was a response to false alarms raising the issue of possible contamination of cosmetic talc with asbestos. *CTFA-FDA Scientific Liaison Report*, CTFA Cosmetic Journal, Vol. 3, No. 4 (1971). Johnson & Johnson's policy required it to discard any talc lot that was sampled and determined to be contaminated with asbestos. I have reviewed Johnson

& Johnson's internal testing results from the relevant time periods and confirmed that the overwhelming majority of these results were negative for amphibole or serpentine minerals.

Independent, third party testing

I have reviewed numerous independent testing results submitted by McCrone Laboratories, RJ Lee Group, and other third-party testers comprising test results covering Johnson & Johnson's talcum powder for the past 40+ years. These test results show that these experts have consistently determined that Johnson & Johnson's talcum powder was not contaminated with asbestos. These testing results are consistent with the bulk of reported studies and testing by the government, academics, and other laboratories.

In addition to these tests, RJ Lee Group has recently completed sixteen (16) samples as part of the MDL process. The testing conducted was in accordance with generally accepted methods and found non-asbestiform amphibole in each of the 16 samples. The amphibole identified in fifteen (15) of the samples is cummingtonite with clear indications of talc alteration and tremolite in one (1) sample. These findings of cummingtonite are consistent with another bottle tested in March 2018 of a "museum" specimen from 1978 wherein non-asbestiform cummingtonite was observed. For these same 17 samples both Dr. Longo (one sample) and Mr. Poye (8/16 samples) misidentified the amphibole present as anthophyllite asbestos. Thus, they misidentified both the habit of the amphibole and the species of amphibole. These mistakes are a result of not following generally accepted methodologies for the testing of talc for asbestos.

Twenty-three (23) additional reports from the MDL process were reported on December 12th, 27th, and 31st, 2018. Non-asbestiform amphiboles were observed in numerous of these samples. Depending on the specific samples the amphibole types observed were tremolite and cummingtonite. In addition to these phases on three samples intergrowths of anthophyllite and the pyriboles jimthompsonite and clinojimthompsonite were observed. In one sample the suspected amphibole particles observed by PLM were intergrowths of talc and clinojimthompsonite with no observed amphibole component by TEM-SAED analysis.

In addition to the above sixteen samples RJ Lee Group has recently completed an additional ten (10) samples and seven (7) samples that are from Asia obtained through the MDL process. In none of these 17 samples were any asbestiform minerals detected. In regard to the 10 samples, non-asbestos amphibole was observed in seven of the samples. These amphiboles were mixtures of cummingtonite and tremolite. For the seven Asian samples six of the seven samples contained non-asbestiform tremolite.

RJ Lee Group has completed testing of two (2) additional samples from the Philippines market, one of which would likely be Korean sourced talc and obtained through the MDL process. Trace non-asbestiform tremolite was observed in one of the samples that based on year of manufacture would have contained Korean talc. The latter sample was from the 1990s and is

likely Chinese source and no asbestos or amphibole mineral were observed. In neither sample were any asbestiform minerals detected.

In further testing in June 2019, RJ Lee Group tested fifteen (15) samples identified as Imerys railcar samples obtained through the MDL process. No asbestiform minerals were observed in any of these fifteen samples. Non-asbestos cummingtonite was observed in five samples. Non-asbestos tremolite was observed in two samples. Non-asbestos or platy serpentine was observed in one sample.

In May of 2023, I tested a single bottle of Johnson & Johnson Baby Powder that was also tested by Dr. Longo. No asbestos was detected in the testing. Further, no amphibole or serpentine minerals were detected.

In February 2024, I tested a single split of material from MAS simply identified as M71740-001. No asbestos was detected. My report on this testing is dated February 12, 2024.

I have also reviewed the Blount 1991 article wherein Sample I was reported to contain amphibole asbestos. As I have previously testified, Dr. Blount's methodology is based on sound mineralogical principles and does allow the determination of whether an amphibole is asbestiform and thus asbestos (unlike the methods of plaintiff's experts in this case). Thus, I agree that for Sample I asbestos was observed and reported. However, the issue is the identity of Sample I. I have reviewed Dr. Blount's depositional testimony from April 2018, wherein she alleges that Sample I was Johnson Baby Powder, and then produced the bottle at the same deposition. However, Dr. Blount testified that the bottle produced and identified as Sample I was purchased in New Jersey after 1991 just prior to her moving to Vermont ca. 1996. Furthermore, Dr. Blount prior to her April deposition sent to Dr. Mickey Gunter what she represented as the samples in her 1991 article. The bag labeled Sample I contained three vials, one of which had the date 1976 written on it. Unfortunately, due to this confusion of fact I am unable to verify what the identity of Sample I is at this time. I am aware that Dr. Blount would not let the parties test this sample. Lastly, none of the other samples have been made available to me in order to test.

Historical government testing

In addition to the independent testing performed by McCrone Laboratories, RJ Lee Group, and others, historical testing by the FDA found no asbestos in Johnson & Johnson's talcum powder. In 1973, the FDA commissioned a study in which 195 products described as "Cosmetic talcum-type powders" were tested for possible asbestos contamination. As part of that study, eleven samples of Johnson & Johnson's talcum powder products were tested. Prof. Lewin did not find any asbestos in nine of the samples. As for the remaining two samples, the report concluded that one sample had inconclusive results for chrysotile and another sample contained trace amounts of tremolite. *See* Prof. Seymour Lewin, Final Report: Determination of Asbestos Contents of Commercial Talcum Powders (July 10, 1973).

The FDA hired DCST to verify Prof. Lewin's XRD results by analyzing the same samples with both light microscopy and differential thermal analysis. After testing Johnson & Johnson's samples (including the two implicated in Prof. Lewin's final report), the FDA concluded that both samples did not have any detectable levels of chrysotile or tremolite. *See* Heinz Eiermann, Tabulated Results of DCST's Analyses for Asbestos Minerals in Prof. Lewin's Study (Jan. 7, 1976).

In July 1986, the FDA responded to a November 1983 citizen's petition seeking "labeling of warning of hazardous effects produced by asbestos in cosmetic talc." The FDA's response found there was no basis at that time for the agency to conclude there is a health hazard attributable to asbestos in cosmetic talc and, without such evidence there was no need for a warning label. *See* 1986 Citizen's Petition Response. Even more recently, the FDA published a study conducted in 2009 and 2010 of 27 samples of cosmetic-grade raw talc and 34 samples of cosmetic products containing talc, finding no asbestos in all samples—including Johnson & Johnson's talcum powder. FDA, "Ingredients>Talc," available online at http://www.fda.gov/cosmetics/productsingredients/ingredients/ucm293184.htm (last visited November 13, 2019).

In October of 2019, the FDA, using AMA (the same testing laboratory as 2009-10), reported finding chrysotile by TEM analysis in two of three splits drawn from a bottle of Johnson & Johnson Baby Powder Lot #22318RB. Johnson & Johnson recalled this specific lot as it investigated this claim. Both RJLG and Bureau Veritas tested, on behalf of Johnson & Johnson, additional talcum powder samples related to this lot. The analytical testing methodology of the three laboratories was similar. Furthermore, the analytical sensitivity for both RJLG and Bureau Veritas testing was greater than that of AMA.

In AMA's report, they had analyzed Lot #22318RB in triplicate using PLM NY ELAP 198.6 and a modified TEM NY ELAP 198.4. During the TEM analysis, they reported data from three of the observed chrysotile structures. The first structure, "308006-6A Chrysotile Structure 1", appears to be consistent with chrysotile based on the EDS and SAED provided. The next two structures, "308006-6B Chrysotile Structure 1a-c" and "308006-6B Chrysotile Structure 2", do not appear to be chrysotile from the SAED provided by AMA. The first structure "308006-6B Chrysotile Structure 1a-c" does not have an observed diffraction pattern. This could indicate that this structure is a) not chrysotile, or b) the fiber was not stable during observation with the TEM. From the image provided of this structure, there appears to be no hollow tube in the center of the structure as would typically be observed in chrysotile. This structure is inconclusive at best and further data would have to be collected in order to confirm the identification as chrysotile. The third structure "308006-6B Chrysotile Structure 2" does not appear to be chrysotile from the provided SAED. The streaking in the [110] gap is reversed from what it should be. Therefore, AMA can only definitively state that one chrysotile fiber was observed during their analysis.

With regard to the control samples and blank samples reported by AMA, there are discrepancies of the dates of preparation of the unknown Johnson & Johnson sample and the dates of the provided data. For example, in the report it is stated that a 10% chrysotile spiked talc was prepared at the same time as the unknown sample. However, the data produced for the 10% spiked sample was prepared at a later date. Further, these 10% chrysotile spiked samples are prepared per batch. Also, the blank samples produced represent a different time period of preparation other than that of the Johnson & Johnson sample subsamples. Since the blank data presented is not that described in the report and, based on the fact that it is not from the same time frame, it is not representative of the environment where the Johnson & Johnson samples were prepared and analyzed. The chronology for preparation and analyses are as follows:

- August 30, 2019 samples 308006-6, 308006-6a, 308006-6b are prepared.
- September 3, 2029 sample 308006-6 analyzed.
- September 5, 2019 blank samples NB19-645, NB19-646, and NB19-647 are prepared.
- September 5, 2019 10% reference control chrysotile spike prepared.
- September 7, 2019 samples 308006-6a, 308006-6b are analyzed.
- September 18, 2019 samples NB19-645, NB19-646, and NB19-647 are analyzed.
- September 18, 2019 10% reference control chrysotile spike analyzed.
- No dates given for EB-54155 described as a carbon coating filter blank.

Furthermore, blanks samples do not encapsulate every potential for contamination. For instance, if the contamination is due to an unclean or partially cleaned pair of tweezers, and if those tweezers, while contaminated, did not handle the blank filter because it was prepared either at a different time or on a separate day, then no transfer of particulate would have been possible, thus no chrysotile observed in the blank sample. Another example described by AMA is the fact that multiple times a year they document asbestos contamination in samples from routine laboratory practice. This is in no way meant as a crimination of the AMA laboratory; it is a fact that in an asbestos testing laboratory, contamination is always a possibility and does happen.

With respect to RJLG testing, each sample or replicate of a sample was analyzed by XRD, PLM and TEM. Two splits were obtained from the original sample provided to AMA, one split labeled "blinded" and the other labeled "original". The analysis of the "blinded" sample was replicated three times, and the analysis of the "original" was replicated twenty times. RJLG was not able to duplicate the findings of chrysotile in the same bottle. These reports are dated October 28, 2019 (the original triplicate analysis) and November 5, 2019 (the additional 17 analyses of the "original" sample). Five samples (four milled talc and one baby powder) provided by Johnson & Johnson were analyzed in triplicate from the same lot that AMA tested. These samples were reported on October 28, 2019 and no asbestos was detected in any of the replicates[2]. RJLG

[2] See RJLG Incident report 10\28\2019: "During the analyses of several samples by transmission electron microscopy (TEM), it was observed that some of the samples that were prepared in one room (room 107I) were found to contain

received and tested six additional lots of talc provided by Johnson & Johnson, wherein no asbestos was detected in any of those lots. The results of these tests were reported on October 29, 2019. In all, 41 tests were performed; no asbestos, amphibole, or serpentine minerals were observed in any of the tested material.

Regarding the Bureau Veritas testing, the preliminary report dated October 27, 2019 showed no asbestos observed on three replicates of the sample lot tested by AMA. The final report, dated November 27, 2019, included the preliminary report data plus additional analysis of four other samples. These are the same samples analyzed by RJLG in the October 28, 2019 report. Bureau Veritas tested each sample in triplicate by four different methods which include PLM 400 point count, PLM 1000 point count, TEM ASTM 5756, and TEM EPA/600/R-93/116. During the analysis of lot #H06228-D7(A1910246-001C and -00D) using TEM ASTM 5756, fibers were observed but Bureau Veritas determined that these structures were sepiolite rather than chrysotile. Further discussion of sepiolite and chrysotile follows. Upon review of the data provided in their report, I agree with this conclusion that these fibers are not chrysotile. Additionally, they observed two possible amphibole structures on H06228-D7 (A1910246-001C). Based on the data provided, I cannot independently verify whether or not these particles are amphibole.

Between RJ Lee Group and Bureau Veritas, a total of 155 independent tests were conducted, 74 of which were TEM tests. In none of these tests could the presence of chrysotile be confirmed. Thus, the observation of chrysotile by AMA is most likely the result of contamination during sample handling and not from the material itself.

I reserve my right to offer opinions as more information is made available about this event.

Much has been written on the mineralogy of chrysotile as it formerly had a very significant role in many industrial processes and products (See Deer et al. 2009, Ledoux 1979, and references therein). The general structure of chrysotile consists of a 1:1 layer silicate composed of a sheet of tetrahedrally coordinated silicon and a sheet of octahedrally coordinated magnesium. Because of the mismatch between the optimum bond length between the apical oxygens of the tetrahedral sheet and the octahedral sheet, the stresses created are compensated for by bending of the sheets. As the sheet extends, this curvature results in the formation of a scrolled structure around the crystallographic axis in chrysotile (see image below). The composition of chrysotile is ideally $Mg_3Si_2O_5(OH)_4$ but small amounts of other elements can substitute for magnesium in the octahedral sites (e.g. iron, nickel, manganese). Chrysotile occurs in serpentinite rocks found in

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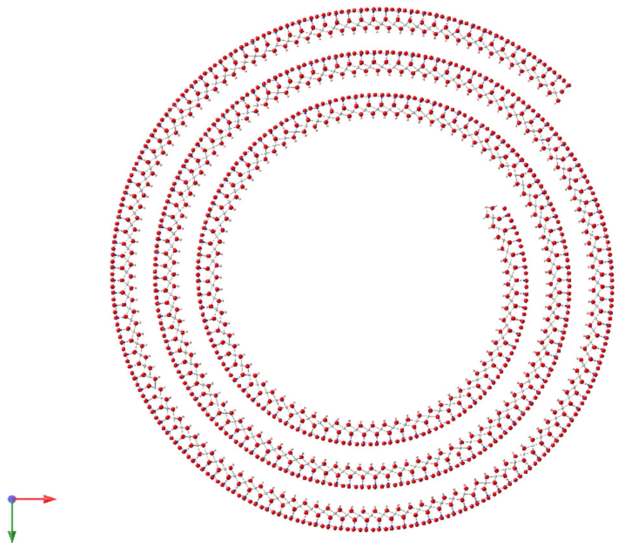
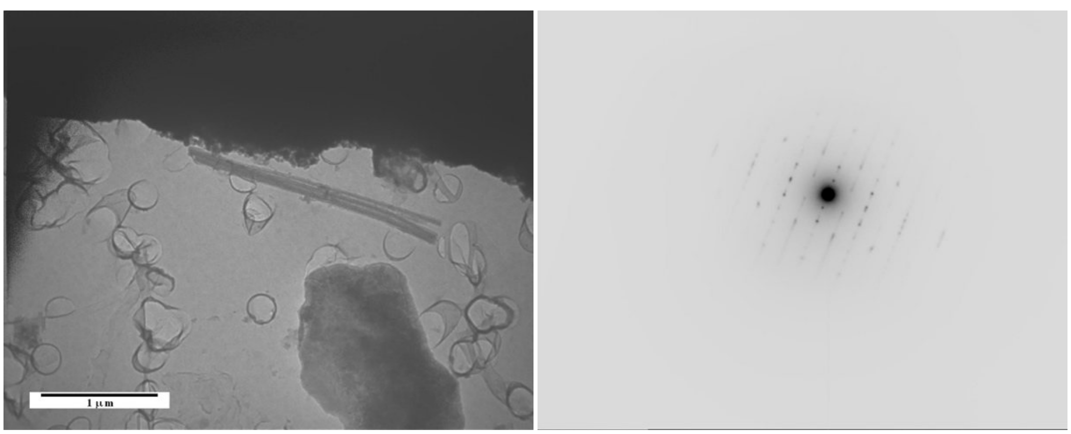
trace levels of chrysotile. Duplicate and triplicate testing of the same sample, prepared in our standard preparation room (room 122), did not contain any asbestos. Repeat testing of all samples, prepared in triplicate in our standard preparation room, indicated the samples did not contain any asbestos. Based on these results, it was concluded that some of the samples prepared in room 107I were somehow contaminated by the environment". Of the 52 total tests in the known clean environment, no sample tested positive for asbestos. Meanwhile, of the 7 tests from the known contaminated environment, 3 showed positive for chrysotile.

ophiolite sequences. The scrolled structure of chrysotile is a characteristic feature of the mineral and is exhibited by the morphology and electron diffraction patterns observed in the TEM.



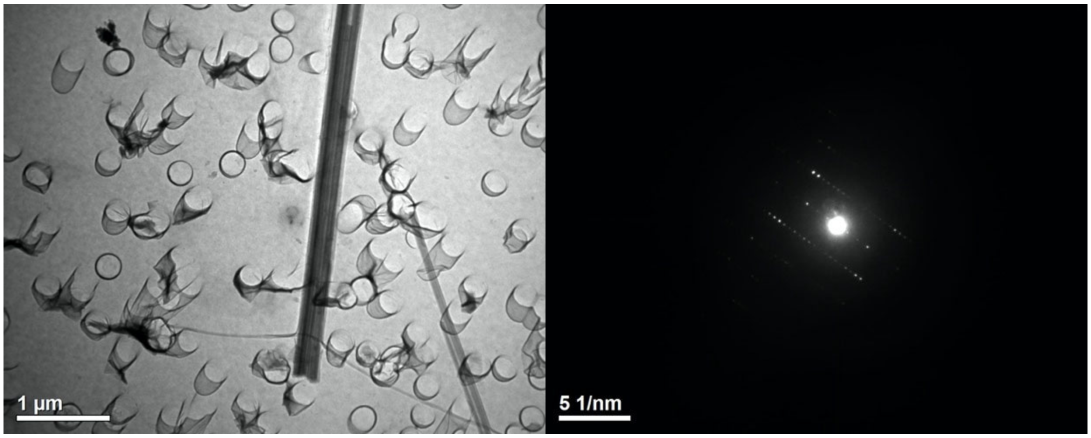
Simulated chrysotile scroll.



TEM electron micrographs of chrysotile bundle (left) and the observed SAED pattern (right). Note the distinct streaking of the SAED caused by the scrolling structure of chrysotile. Also, on the image one can observe the hollow tube running down the center of the fiber represented by a lighter grey region in the center of the fiber.

Sepiolite is a 2:1 sheet silicate clay mineral with the ideal composition of $Si_{12}Mg_8O_{30}(OH)_4(OH_2)_4 \cdot 8H_2O$. Sepiolite is included as a sheet silicate as the structure contains a two-dimensional sheet composed of T_2O_5 (T=Si, Al, etc.), however, sepiolite does not contain a continuous octahedral sheet. This results in a ribbon structure composed of 2:1 layer silicate sheets. These ribbons are joined by apical oxygens of adjacent tetrahedral ribbons where the adjacent tetrahedral ribbons have alternating directions of the apical oxygens (see Jones & Galan 1988, and reference therein, for discussion). The arrangement of these ribbons creates a large

channel in the structure capable of weakly holding water as well as other cations. This ribbon structure causes sepiolite to form typically in a fibrous habit. Sepiolite occurs in a wide variety of environments, but seldom in significant abundance (Jones & Galan 1988). Electron microscopy of sepiolite is difficult as the structure degrades quickly as a result of dehydration of the structure in the vacuum of the electron microscope.



TEM electron micrographs of a sepiolite fiber (top) and SAED (bottom). Notice the lack of streaking within the SAED pattern.

1970s Testing

I am aware of historic testing that took place in the 1970s, including testing in 1972 by Professor Lewin at NYU and in 1976 by Drs. Rohl and Langer. It is important to note that it would be improper to rely solely on Dr. Lewin's preliminary results. Dr. Lewin's preliminary results have been described by McCrone as "grossly wrong" and by NIOSH as "erroneous." Walter C. McCrone, *The Asbestos Particle Atlas* (1980) at 3-4; NIOSH, *Analysis of Talc by X-Ray Diffraction and Polarized Microscopy* 34 (May 1977) at iii.

Likewise, Drs. Rohl and Langer's 1976 article has been discredited because it did not reliably identify asbestos. On the face of their article, Rohl and Langer stated that their methodology did not distinguish between asbestos and non-asbestos. They defined "asbestiform" as "formed like or resembling asbestos." based solely on a 3:1 aspect ratio.

Academic, private, and government scientists, including IARC, the U.S. Bureau of Mines, and the McCrone Institute, are in agreement that Drs. Rohl and Langer's 1976 report is unreliable (IARC 2010) wherein they state that "criticisms [of Rohl et al. 1976] were reasonable and little reliance can be placed on the reported concentration of tremolite or anthophyllite. The Working Group also noted that Rohl *et al.* (1976) stated that their methodology did not distinguish between asbestos and non-asbestiform mineral fragments." A same problem was noted by Campbell *et al.* 1977 wherein they state that: "In many instances, cleavage fragments of common amphibole minerals have been mistakenly identified as microscopic fibers of the related asbestiform variety.

Such lack of precision in identifying these particulates is a handicap to scientific decision making". Walter McCrone (1980) commented on the use of a 3:1 aspect ratio and its use in asbestos analysis in talc as "silly". Lastly, Krause (1977b) states in regard to the work by Rohl et al. "conclusions drawn are without scientific basis and are therefore misleading and invalid".

Indeed, for these reasons, in its 1986 review of whether cosmetic talcum powder should be affixed with a warning label, the FDA rejected this testing:

> *"During the early 1970s, FDA became concerned about the possibility that cosmetic talc did contain significant amounts of this material. The agency received several reports about such contamination. However, at that time, the analytical procedures for determining asbestos in talc were not fully developed, and most of the analytical work was conducted without scientific agreement as to which methods were well-suited for the identification of asbestiform minerals in talc. Consequently, FDA considered all analytical results to be of questionable reliability. This assessment proved to be correct because many questions were subsequently raised about results reported in the literature in the early 1970s (see enclosed copy of National Bureau of Standards Special Publication 506 entitled "Misidentification of Asbestos in Talc.)"*

1986 Citizen's Petition Response at FDA00003601.

Plaintiff Expert Testing

<u>Aspex, LLC</u>
It is my understanding that Dr. Mark Rigler has been disclosed as an expert in this case. To date no case specific report has been issued. However, in the latest reports I have reviewed from Dr. Rigler, he has presented no new data, merely a summary of the reports of MAS where he is a cosignatory. I reserve my right upon review of his case specific report to rebut any new allegation(s) he may raise. Discussion of these reports follows.

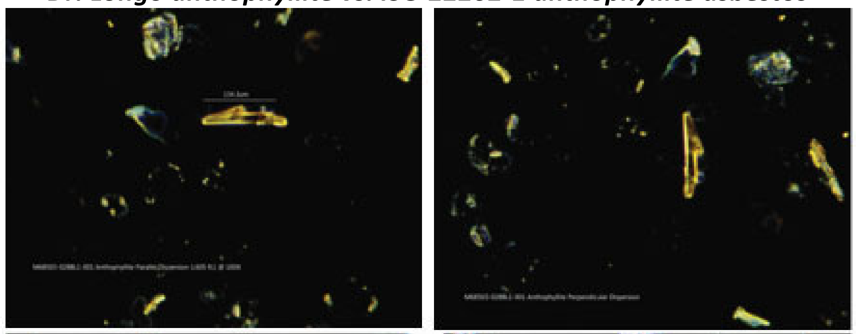
<u>MAS</u>

I have reviewed reports by Dr. Longo of MAS as well as various deposition and trial testimony as it relates to his testing of alleged bottles of Johnson & Johnson talcum products. The specific reports I have reviewed are dated August 2, 2017, August 21, 2017, September 2017, October 2017, February 16, 2018, March 2018, March 11, 2018, October 2018 (two reports), November 5, 2018, November 14, 2018, January 15, 2019, February 2019, February 9, 2021, and April 13, 2021. Criticisms of the MAS testing conducted on the MDL samples are expounded in a report dated February 12, 2019 and summarized herein. Additional criticisms of MAS testing are found in a report dated May 10, 2023.

Dr. Longo and MAS used "count rules" that are incapable of differentiating asbestos from non-asbestos minerals. Furthermore, Dr. Longo misidentifies fiber (defined by him as >5:1 AR and >0.5um particles) as bundles, the features that are observed are common to all amphiboles and not unique to asbestiform amphiboles. The finding of small amounts of amphiboles in sporadic samples potentially originating from these deposits is consistent with the geology and testing records of both the Vermont and Italian source mines, and do not constitute a finding of asbestos. MAS further failed to use any objective measurements of observed electron diffraction patterns such as, without this data they cannot show that the observed particles are in fact amphibole and even if these were proven to be amphibole by supplemental work the diffraction data alone is insufficient to determine if any particle is asbestiform.

Dr. Longo does not properly follow the ISO 22262-1 Method for PLM analysis. 1. Dr. Longo's report claims he analyzed 42 talc samples using the ISO 22262-1 method for PLM analysis. (See Nov. 14, 2018 MAS Report, at p. 16.) Dr. Longo fails to measure correctly the refractive index of the alleged minerals observed, this results in his incorrect identification of anthophyllite asbestos by PLM. In Figure 10.1 are two images from Dr. Longo reports showing the refractive index measurement in both the parallel and perpendicular directions -arrows added- (See Nov. 14, 2018 MAS Report, at p. 581-582.) Note, that the color observed (which is a function of the refractive index) does not change as a function of orientation. Shown directly below are the correct colors that would be displayed if these particles were in fact anthophyllite. The lower pair of images are taken from ISO 22262-1 (at p. 51) and illustrates both the refractive index and morphology of anthophyllite asbestos in same two particle orientations as the images supplied by Dr. Longo.

Dr. Longo anthophyllite vs. ISO 22262-1 anthophyllite asbestos



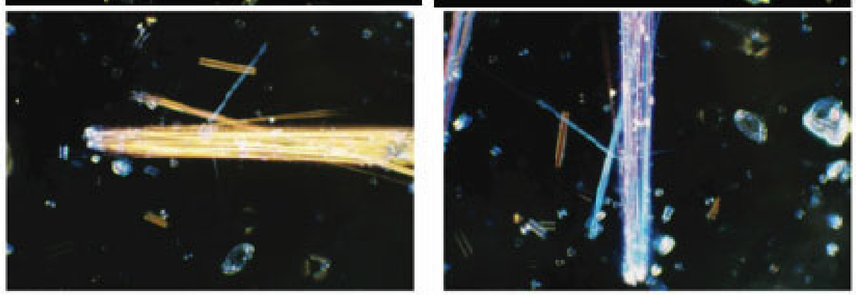


Figure D.47 — HSE anthophyllite in 1,605 RI liquid viewed in dispersion staining — Fibre lengths parallel to polarizer vibration direction

Figure D.48 — HSE anthophyllite in 1,605 RI liquid viewed in dispersion staining — Fibre lengths normal to polarizer vibration direction

ISO 22262-1

7.2.3.7 Identification of asbestos

7.2.3.7.1 Morphology

A detailed description for the morphology that is characteristic of asbestos is as follows. This morphology is characteristic of the larger fibres seen in stereomicroscope examinations and of fibres selected from laboratory samples for PLM identification of fibre type.

In the light microscope, the asbestiform habit is generally recognized by the following characteristics:

a) the presence of fibre aspect ratios in the range of 20:1 or higher for fibres longer than 5 µm;

b) the capability of longitudinal splitting into very thin fibrils, generally less than 0,5 µm in width;

c) in addition, observation of any of the following characteristics for the fibre type under consideration provides additional confirmation that the fibres are asbestiform:

   1) parallel fibres occurring in bundles,

   2) fibre bundles displaying splayed ends,

   3) fibres in the form of thin needles,

   4) matted masses of individual fibres,

   5) fibres showing curvature.

In practice, if chrysotile, crocidolite or amosite is identified in a commercial product, the assumption can safely be made that the fibres are asbestiform and that these fibres conform to the description above. This assumption can be made because these three types of asbestos were mined and processed to yield fibres with specific properties for intentional incorporation into products. Some anthophyllite asbestos was used in a few commercial products, but very little was mined and used commercially. Tremolite asbestos has been found in some surfacing and fireproofing applications in Japan. However, other than these occurrences, the amphiboles tremolite, actinolite, and richterite/winchite were not generally used in commerce, and their presence in a product is more likely a consequence of naturally occurring contamination of one or more of the major constituents. Accordingly, no assumption can be made as to whether the amphibole is asbestiform or non-asbestiform. Anthophyllite can occur as contamination of other mineral products, and in such situations no assumption can be made as to whether it is asbestiform or non-asbestiform. In some samples, these amphiboles may exhibit a mixture of morphological types, and quantitative determination of the regulatory status of such samples may require a detailed study of the fibre size distribution that is beyond the scope of this part of ISO 22262.

In general, for this part of ISO 22262, the presence of either the asbestiform or the non-asbestiform analogues of tremolite, actinolite, anthophyllite or richterite/winchite can usually be specified. If the majority of the amphibole fibres longer than 5 µm have aspect ratios equal to or lower than 5:1, and if the fibres do not exhibit any of the characteristics in c), it can be concluded that the amphibole is probably non-asbestiform, with the degree of certainty increasing with decreasing maximum aspect ratio. If any amphibole fibres longer than 5 µm with aspect ratios in the range of 20:1 or higher are observed, then it can be concluded that amphibole asbestos is probably present, with the degree of certainty increasing with increasing aspect ratio.

(ISO 22262-1 Method, at pp. 22-23.)

In his application of the method, however, Dr. Longo disregards the method's definition of asbestiform. (See Nov. 14, 2018 MAS Report, at pp. 19-20.)

ISO 22262-1

2.8
asbestiform
specific type of mineral fibrosity in which the fibres and fibrils possess high tensile strength and flexibility

[ISO 13794:1999,[4] 2.6]

(*Id*. at p. 2.)

Rather, Dr. Longo assumes any amphibole that is elongated (>3:1 aspect ratio) are asbestiform. (Ibid.) This is especially problematic as the method specifically states no assumptions can be made as to whether observed anthophyllite, tremolite, and actinolite are asbestiform. Furthermore, ISO 10312 (an air method), which uses a 3:1 aspect ratio counting criteria specifically states, "The method cannot discriminate between individual fibres of the asbestos and non-asbestos analogues of the same amphibole mineral." (ISO 10312 "Ambient air – Determination of asbestos fibres – Direct-transfer transmission electron microscopy method" p. 1 sec. 1.1).

Dr. Longo's report also fails to identify how he identified the particular structures as bundles other than describing the structures as "parallel fibers in an asbestos structure that are closer than one fiber diameter to each other." (Nov. 14, 2018 MAS Report, at p. 19.) This is particularly concerning as Dr. Longo concedes an outside laboratory was unable to identify any asbestiform particles in the 38 samples of the Defendants' talc it tested from the same time period using the same methodology followed properly. (Id. At 13.)

In sum, Dr. Longo materially deviates from the ISO 22262-1 method in a manner that is novel and not generally accepted by the scientific community.

Furthermore, Dr. Longo's comparison of his observed data to the data found in the 1977 Bureau of Mines report to conclude a finding of asbestos is a false comparison. The MAS data consists of only amphiboles that have aspect ratio's greater than 5:1 and longer than 0.5um in length (MAS's chosen counting criteria). When one compares the Bureau of Mines report the comparisons of the asbestos vs. non-asbestiform amphiboles were conducted on measurements of all particles in all size and shape ranges. Thus in order to use the Bureau of Mines data for comparative purposes MAS must collect all the dimensional data of the particles within the product samples and then compare the aspect ratio distributions. Furthermore, MAS must show that the TEM preparation process does not bias the particle distributions through loss of the larger particulate. When I used a one-to-one comparison of the observed MAS particle population the distribution is consistent with non-asbestiform amphibole. By not comparing the same type of dimensional data MAS compared two disparate data sets and arrived at a false positive result for asbestos.

The claim of Dr. Longo that the mineral chesterite is a polymorph of anthophyllite is false. The term polymorphism refers to minerals that have the same chemical composition but different crystal structures. This is not the case between chesterite and anthophyllite, they both have a unique chemical composition (end member formulas $Mg_{17}Si_{20}O_{54}(OH)_6$ and $Mg_7Si_8O_{22}(OH)_2$) and unique orthorhombic crystal structures (a= 18.64, b= 45.31, c=5.29 and a=18.54 b=18.02, c=5.28 respectively). The methods used for both compositional and diffraction analysis conducted by MAS is incapable of distinguishing these two minerals.

The comparison of a modern day talcum powder's particle size distribution does nothing to verify whether a talcum powder obtained from a third party seller is the same material that would have been placed in the bottle during manufacturing. Talc products are milled to certain size parameters for a variety of applications. The end user of the talc defines the particle size needed for the intended application and these sizes are not unique to any given product or manufacturer. For example, an industrial grade talc that is milled to 200 mesh would have a comparable particle size distribution to a cosmetic grade talc milled to a 200 mesh. The particle size comparison between the two simply confirms that the talcum powder tested has been milled to the same specification but it does not establish provenance of a material or the end use application of the powder. The particle size distribution would only be a unique marker if Johnson & Johnson used a uniquely milled particle size, this is not the case with current production nor have I seen evidence that this was true in the past.

Furthermore, I have tested thirty-one (31) of the alleged Johnson & Johnson powders analyzed by MAS and relied upon by Dr. Longo and found that only one of the samples contained tremolite asbestos which was observed despite the presence of non-asbestiform amphibole in sample 3149796, a sample drawn from a pre-1953 cardboard container. This container is from the early 1940's and is unique when compared to the remainder of the samples analyzed. It is in no way representative of the whole sample set of containers. The asbestiform component is clearly observable by PLM and TEM without any concentration techniques being employed. Any other amphibole observed in the other samples were non-asbestiform and consistent with amphiboles of the monoclinic crystal system, i.e. cannot be anthophyllite.

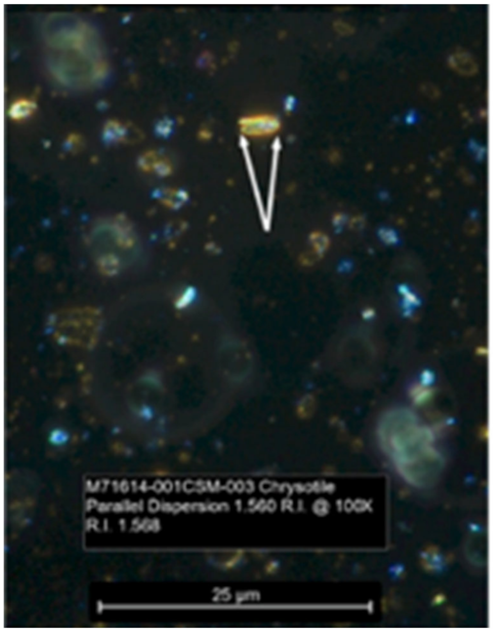
I have also reviewed the two MAS Baby Study Simulations dated January 2019 and June 28, 2019 rev. 1 as well as the MAS Supplemental Baby Study dated May 2020. There are numerous incongruities in the data presented in these reports which need to be addressed. The two samples selected for the studies are the two highest amphibole containing talc samples drawn from Johnson & Johnson containers. The sample used in the January 2019 report (M66173-003) contains primarily non-asbestos amphibole with a subordinate amphibole asbestos component. The sample used in the Baby II Study contained no detectible amphibole asbestos component. Thus, the assumption that all the amphibole observed in a simulation must be asbestos is erroneous and this assumption will exaggerate amphibole asbestos f/cc values in both studies. The concentration of amphibole in these two samples are orders of magnitude greater than other talc samples (where amphibole is observed) drawn from Johnson & Johnson product containers.

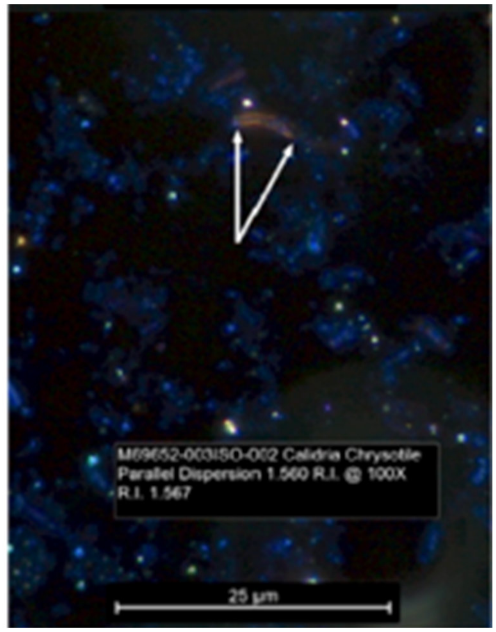
Furthermore, for the January 2019 report, 74 out of 74 counted amphibole particles all were identified as tremolite by MAS and no chrysotile was observed in any of the air samples generated in this study. However, in the fabric sample WC-1-C, MAS reported chrysotile (n =5) and no tremolite. The source of chrysotile needs to be determined as there is no evidence to support a conclusion that it came from the talc. When comparing the NIOSH 7400 (PCM) and NIOSH 7402 (TEM) data for the six personal samples from the January 2019 report, the percentage of fibers that were identified as asbestos by TEM ranged from 0 (P-1-A) and 100 (P-1-D). The minimum and maximum asbestos fiber to total fiber ratio presented in this small sample set, from the same simulation and the same material source, is highly suggestive of either a sampling or analysis error. Talc fiber is always a component of any talc-based sample (not to be confused with either fibrous or asbestiform talc). The near lack of recorded talc fiber in the TEM analysis for both studies further indicates that the total fiber count of the TEM data is not reliable, thus the “asbestos” percentages reported are not valid.

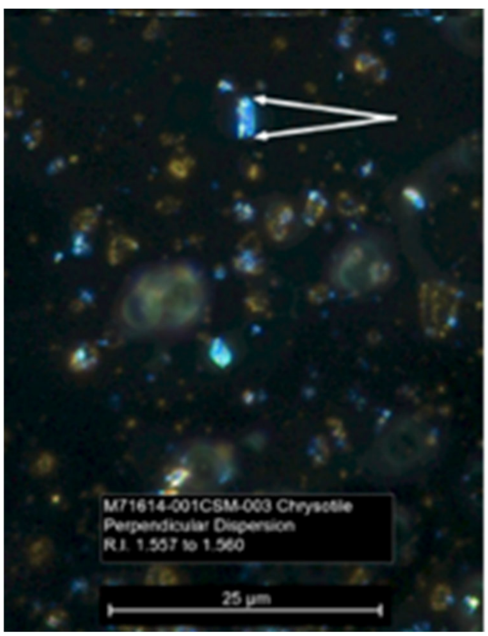
Dr. Longo has also issued a number of reports (Zimmerman Feb 24, 2020; Citizen Mar 6, 2020; Doyle Mar 20, 2020; Titley Mar 18, 2020 and May 14, 2020; and Colley Apr 6, 2020) wherein he purports to identify chrysotile using an iodine staining procedure. Discussion of this procedure and the effects thereof are discussed in my reports dated March 9, 2020 (Zimmerman) and April 29, 2020 (Titley).

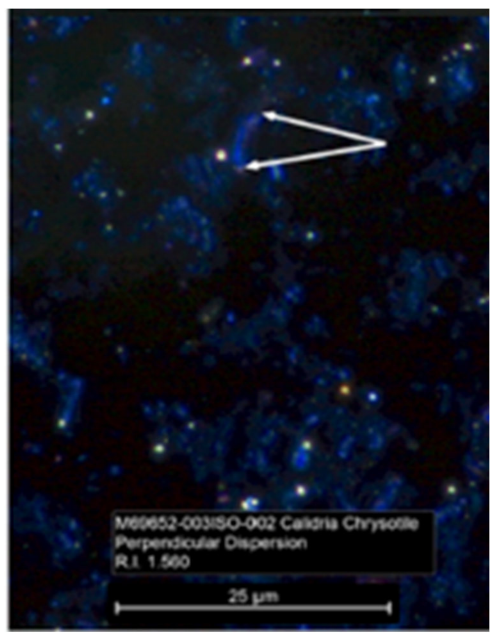
I have reviewed reports dated September 16, 2020, and September 17, 2020 (supplemental dated September 29, 2020) which comprised testing of GuangXi Chinese source talc and “off the shelf” testing of Johnson & Johnson baby powder. In these reports, Dr. Longo continues to misidentify talc as chrysotile. This error is the same error as discussed in my rebuttal reports of March 9, 2020 and April 29, 2020. Dr. Longo has demonstrated a lack of understanding of optical crystallography and how it is used in mineral characterization and identification. Furthermore, the optical measurements given by Dr. Longo, even though erroneous, are still inconsistent with chrysotile optical data in the published literature and generally accepted PLM based general methods. For example, Longo’s chosen method for this analysis is ISO 22262, however he completely disregards the published known chrysotile ranges for γ and α, see Figure C.1. Ironically the matching (λ_o) color that MAS interprets as γ for chrysotile is the same color (same refractive index) as the talc plates in the same photograph.

I have reviewed a single bottle test report of Dr. Longo dated February 28, 2023. In this report Dr. Longo again changes his testing approach by PLM as it relates to the alleged findings of chrysotile. The primary change is using a 1.560 instead of the previously used 1.550 refractive index liquid. This further demonstrates that, as discussed above, talc is being misidentified as chrysotile. I discuss these findings in a report dated May 10, 2023, and its revision dated June 20, 2023. Below are comparisons of what Dr. Longo is alleging is chrysotile in the 1.560 liquid to the Calidria chrysotile.

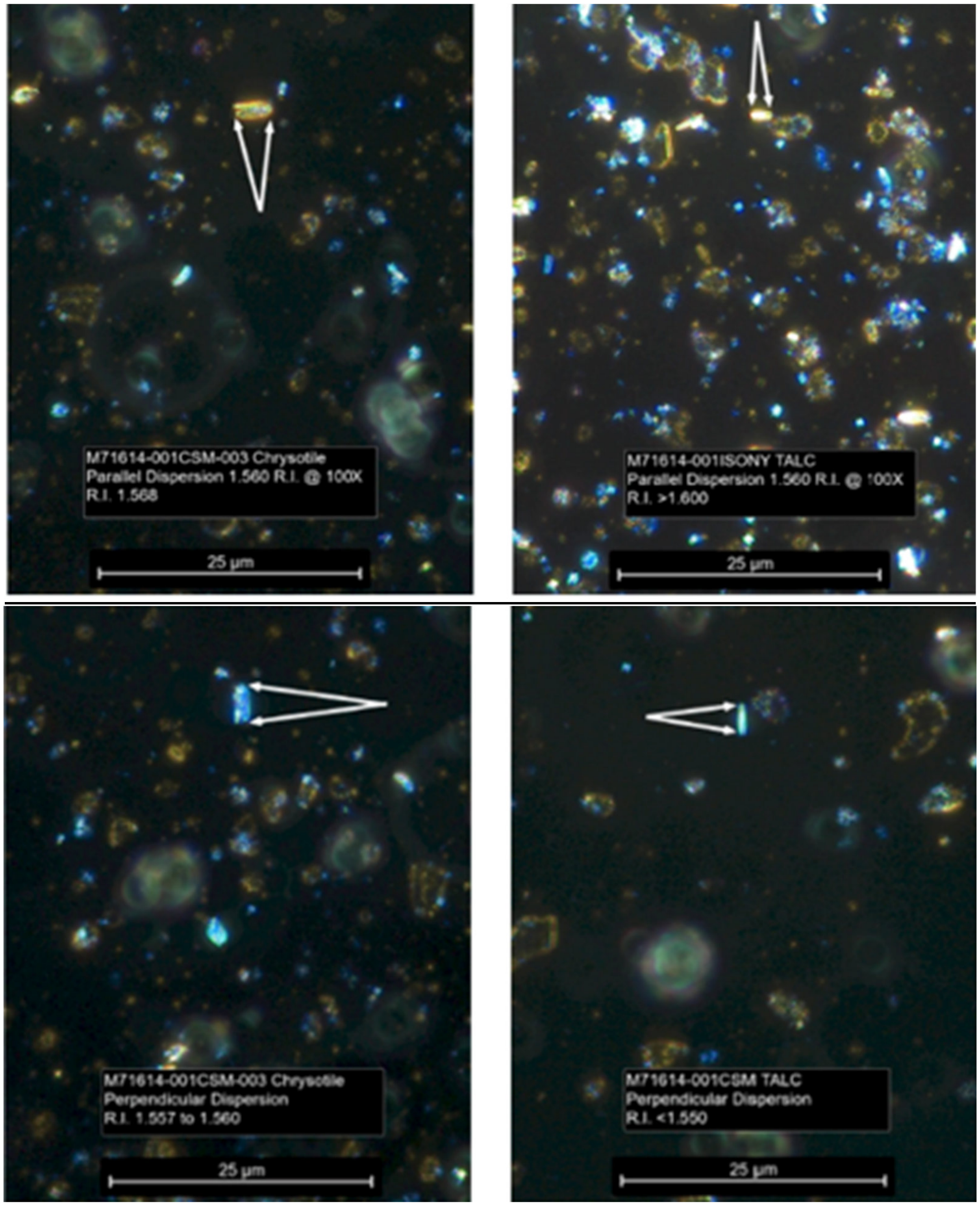




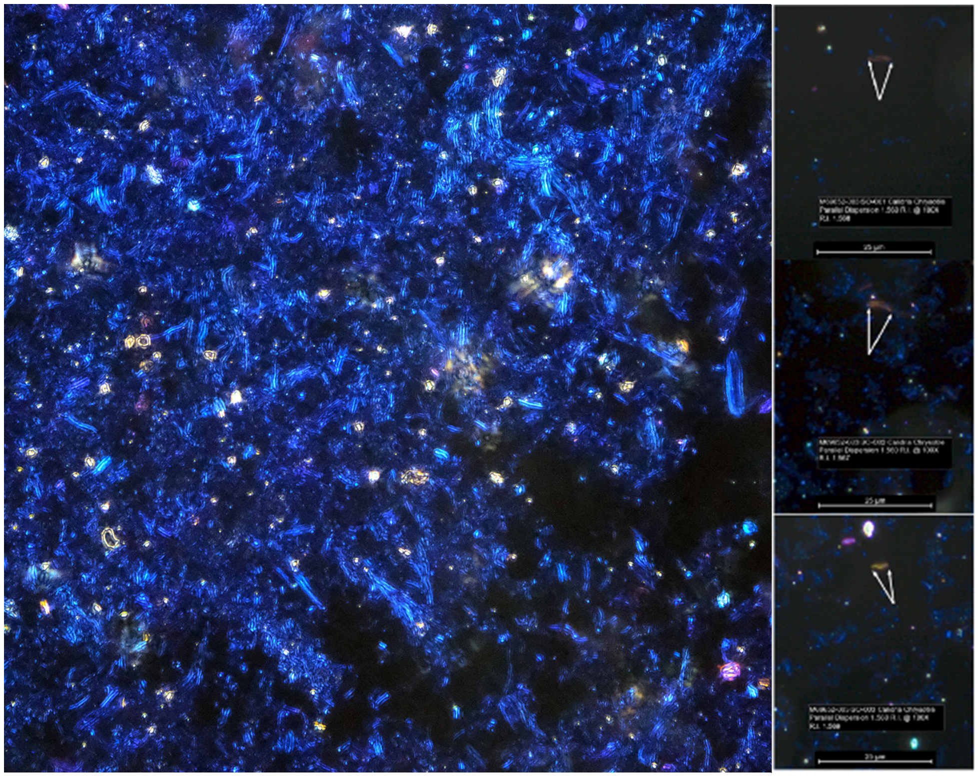




Note that the colors are not the same, meaning that they cannot be the same mineral. Further, note below this same particle compared to what Dr. Longo reports as talc (this I agree with). The alleged chrysotile exhibits the same colors as the talc. Thus, the alleged chrysotile is talc.



Dr. Longo also misrepresents the refractive index of the Calidria chrysotile in his reports and prior testimony. The comparisons made above are to a mineral phase within the Calidria material, but it is not representative of that chrysotile. Below on the left is an image of a representative field of view of the Calidria chrysotile material in a 1.560 liquid. The three images on the right were produced by Dr. Longo as representative of the Calidria material. Supporting this are refractive index measurements provided in the literature for Calidria sourced chrysotile; both McCrone 1974 and Campbell et al. 1980 provide refractive indices measurements for both γ' and α' in either λ_o or in n_D, respectively. McCrone 1974 reports 590nm and 630nm in 1.550 reference liquid and Campbell reports 1.562 and 1.557 respectively.



I have reviewed the deposition of Dr. Longo in the Cardillo case given on September 1, 2023 wherein Exhibit 13 is an affidavit dated August 28, 2023. Exhibit 13 included a report of Dr. Shu-Chun Su regarding the misinterpretation of Dr. Su's work cited by Dr. Longo to support Dr. Longo's erroneous chrysotile findings. The testing reviewed by Dr. Su is directly relevant to this case as Dr. Longo uses the same systematically flawed approach and rational in his testing on Johnson & Johnson talc products. In his review Dr. Su states:[3]

"MAS misinterpreted my conversion tables for chrysotile in Cargille 1.550 (Series E) R.I. liquid. Those tables do not define the ranges of chrysotile's refractive indices. Instead, they are used to convert RI matches between the liquid and solid at matching wavelengths other than 589nm, back to the reported values that are given at 589 nm."

Dr. Longo misinterprets Dr. Su's work to justify his chrysotile findings by falsely comparing his observed refractive indices (albeit incorrectly measured) with the tables of Dr. Su to claim his observations are chrysotile and that his approach is consistent with the scientific literature. Dr. Longo is using both a novel and unsound testing protocol.

[3] Exhibit 13 – Deposition of Dr. William Longo in Cardillo vs. American International Industries et al. New York September 1, 2023.

J3 Resources

As noted above, Mr. Poye analyzed 16 samples of Shower to Shower obtained through the MDL process. A more thorough review of J3 Resources testing of these samples was produced in a separate report dated February 12, 2019. I will summarize that report here.

As noted above, Mr. Poye of J3 Resources analyzed 16 samples of Shower to Shower obtained through the MDL process. A more thorough review of J3 Resources testing of these samples was produced in a separate report dated February 12, 2019. I will summarize that report here.

The analysis of Mr. Poye failed to screen adequately by PLM for amphibole mineral phases and did not find any asbestos because it is simply not present in those bottles. Regarding his TEM testing, he failed to conduct quantitative zone axis indexing correctly and arrived at the false positive result of anthophyllite asbestos in 11 of the 16 samples. This false positive result is due to his failure to index his zone axis diffraction patterns, when evaluating his zone axis diffraction patterns and indexing them, one finds that they are consistent with particles derived from talc to amphibole reactions and many of the particles are in fact transitional particles, or intergrowths of various biopyribole phases, (e.g. talc, cummingtonite, and clinojimthompsonite). Thus, Mr. Poye's own testing and back-up data has in fact shown that there is no asbestos present in the 16 samples tested when mineral identification is conducted correctly.

John J. Godleski, M.D.

I have reviewed the reports by Dr. Godleski dated March 8, 2016 and August 25, 2021. Dr. Godleski's approach to identifying minerals has two critical flaws: SEM-EDS alone is insufficient for definitive mineral identification and reliance on aspect ratio to classify a particle as a fiber in thin sections of tissue does not allow one to determine the true morphology of the particle.

Talc is a mineral and minerals are defined as naturally occurring, inorganic solids, with definite chemical composition and unique crystal structures. Determination of the chemical composition and crystal structure is most useful for the identification of an unknown mineral particle. The use of SEM-EDS only determines the chemical composition and cannot obtain any data concerning the crystal structure and, therefore, cannot make a definitive identification. Since there are numerous minerals with similar Mg:Si ratios as talc, one can only conclude that there are magnesium silicate particles with ratios approximating that of talc. One cannot definitively say talc is present based on this situation. Furthermore the source of these particles cannot be definitively stated.

In the 5μm thick tissue sections that are standard for light microscopy in pathology, particles with high birefringence that are <5μm in diameter are shown in Figure 1 of his report. In review of the produced data, the most dominant mineral types observed that would display birefringence are both exogenous and endogenous materials, for instance numerous quartz (SiO_2), calcite ($CaCO_3$), and possible apatite ($Ca_5(PO_4)_3(OH)$) were observed. The maximum birefringence of these materials ranges from 0.009, 0.172, and 0.007 respectively. In 5μm sections the calcite

would be the only one of these three that would display high retardation such as shown in the light microscopy images provided by Dr. Godleski. Talc ($Mg_2Si_4O_{10}(OH)_2$) has max birefringence of 0.05 and, while higher than quartz, still would not exhibit the high retardation observed in the images provided by Dr. Godleski. Ca particles (if calcite) could be either endo- or exogenic in origin.

Although I did not see any reference to the talc morphology in his report, in other reports of Dr. Godleski or his associates with similar analytical approach they have reported talc "fiber". To the extent Dr. Godleski plans on offering the opinion that talc ifber was observed, the following applies. As the SEM preparations used by Dr. Godleski are sections of tissue, the actual shapes of the particles are unknown. These section preparations provide only a 2-dimensional view of a 3-dimensional particle. The orientation of particles can greatly affect their apparent aspect ratio in sectional view. This is especially apparent when suspect particles exhibit pronounced cleavage properties. Talc has a perfect cleavage along {001} which results in plate or sheet like particles that have two relatively equidimensional directions and one much shorter third dimension. As a talc plate is viewed in orientations not perpendicular to this cleavage plane it will have apparently higher and higher aspect ratios. This does not make it a fiber. In fact, Roggli et al. 1983 (cited by Dr. Godleski) deals with this same issue for asbestos bodies in thin section (for asbestos the shape is due to the growth habit not the cleavage of the minerals) and is the reverse situation of a plate where the particles are truly fibrous and exhibit one long axis and two short axis dimensions. Therefore, as a section through an asbestos fiber is oriented perpendicular to the fiber axis, the projected section of the fiber will have an aspect ratio approaching 1:1. Thus, no reliance of the true morphology of the particles can be said with this type of microscopy preparation. Any comparison to work done by Dr. Roggli and others on digested lung tissue samples cannot be made as there is no understanding of background levels of talc in tissues for comparative purposes as shown and referenced for asbestos bodies by Roggli et al. 1986 and others. Nor has the data been normalized to talc particles per gram of tissue or talc particles per area of tissue as is done in asbestos fiber burden analyses.

In his report he states that he only analyzed two of the four tissue sections that contained the most birefringent properties, namely H512-7825-M1 and H512-7825-D which corresponds to the right pelvic lymph node and ovarian fossa. Why the other two received blocks, H512-7825-M2 and H512-7825-A1, were not analyzed is not stated in this report. In none of the two preparations is the area analyzed provided nor are there any analytical controls to monitor for background levels of the analyte in question. Meaning that the data is not normalized in any way. If the data is not normalized what is the basis of comparison to say it is significant. Further, Dr. Godleski is asking us to believe that his procedures obviates contamination with no evidence.

In summary, Dr. Godleski has failed to demonstrate these particles are indeed talc and to classify any particles morphology as a fiber, or other shape, cannot be done due to the nature of his preparations. Inconsistencies of tissue blocks wherein no talc was found is inconsistent with the statements in Dr. Godleski's report. Lastly, no particles with compositions consistent with

asbestos or non-asbestos analogues of amphiboles were observed in review of the raw data sets in the tissues analyzed by Dr. Godleski.

Conclusion

In my expert opinion, Johnson & Johnson talcum powder and talc from the source mines was and is free of asbestos. This opinion is offered to a reasonable degree of scientific certainty. This opinion is based on my expertise, education, training, and experience in analyzing materials, including talc, for possible asbestos content. This opinion is supported by my own site visits to both Val Germanasca Italy and Guangxi China, testing that I have conducted of the relevant talcs and upon my review, analysis, and interpretation of decades of study conducted by scientists in academia, federal government, and industry. This opinion is also supported by my review, analysis, and interpretation of the available analytical testing data on Johnson & Johnson talcum powder.

I reserve the right to amend this report if additional relevant information is made available to me.

Sincerely,

Matt S

Matthew S. Sanchez, PhD
Principal Investigator
msanchez@rjleegroup.com

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4/5/2010 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03300-21, PHA 000002545 - PHA 000002545
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4/30/2010 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04150-21, PHA 000002519 - PHA
5/3/2010 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04290-21, PHA 000002530 - PHA 000002530
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6/8/2010 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06040-21, PHA 000002735 - PHA 000002735
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9/30/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09123-21, PHA 000001355 - PHA
10/11/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10023-21, PHA 000001427 - PHA
10/22/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10113-21, PHA 000001407 - PHA
10/29/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10213-21, PHA 000001378 - PHA
10/31/2013 Email from T. Hagen to J. Roberts re: JnJ - Imerys Talc Chain of Custody from Mine Source in China to Houston
11/15/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10303-21, PHA 000001399 - PHA
11/27/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H11153-21, PHA 000001387 - PHA
12/5/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H11273-21, PHA 000001003 - PHA
12/13/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H112093-21, PHA 000000962 - PHA

12/16/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H112113-21, PHA 000000993 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12053-C4, PHA 000001494 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12183-C4, PHA 000001463 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12143-C4, PHA 000001472 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12143-C4, PHA 000001474 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12053-C4, PHA 000001484 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12053-C4, PHA 000001487 - PHA
12/23/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H112173-21, PHA 000000973 - PHA
12/23/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H112203-21, PHA 000000983 - PHA
1/10/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01084-C4, PHA 000000101 - PHA
1/10/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01084-C4, PHA 000000099 - PHA
1/10/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01084-C4, PHA 000000103 - PHA
1/17/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H01054-21, PHA 000000954 - PHA
1/31/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H01214-21, PHA 000000945 - PHA
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02054-C4, PHA 000000123 - PHA 000000123
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01284-C4, PHA 000000132 - PHA 000000132
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02054-C4, PHA 000000124 - PHA 000000124
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01284-C4, PHA 000000131 - PHA 000000131
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01284-C4, PHA 000000130 - PHA 000000130
2/7/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01314-C4, PHA 000000116 - PHA 000000117
2/7/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02064-C4, PHA 000000109 - PHA 000000109
2/7/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01314-C4, PHA 000000118 - PHA 000000118
2/7/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02064-C4, PHA 000000110 - PHA 000000110
2/25/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03064-21, PHA 000000925 - PHA
2/25/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H02044-21, PHA 000000934 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01314-C4, PHA 000000089 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02224-C4, PHA 000000010 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02224-C4, PHA 000000004 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02224-C4, PHA 000000015 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02254-C4, PHA 000000023 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02254-C4, PHA 000000024 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02254-C4, PHA 000000025 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02264-C4, PHA 000000062 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02064-C4, PHA 000000068 - PHA
3/13/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03084-21, PHA 000000915 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03094-C4, PHA 000000083 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03114-C4, PHA 000000036 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03114-C4, PHA 000000037 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03114-C4, PHA 000000038 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03094-C4, PHA 000000084 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03094-C4, PHA 000000082 - PHA
3/21/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03154-C4, PHA 000000056 - PHA
3/21/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03154-C4, PHA 000000057 - PHA
3/21/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03154-C4, PHA 000000055 - PHA
3/24/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03174-21, PHA 000000904 - PHA
4/1/2014 FDA's 2014 denial of Citizen's Petition requesting warning on talcum powder products and related correspondence
4/1/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03244-21, PHA 000000894 - PHA 000000894
4/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03304-21, PHA 000000863 - PHA 000000863
4/14/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04114-21, PHA 000000884 - PHA
4/15/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04124-21, PHA 000000854 - PHA
4/24/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04174-21, PHA 000000815 - PHA
4/25/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04224-21, PHA 000000845 - PHA
5/20/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04294-21, PHA 000000874 - PHA

5/22/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05154-21, PHA 000000834 - PHA
5/27/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05214-21, PHA 000000824 - PHA
6/5/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05234-21, PHA 000000803 - PHA 000000804
6/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06054-21, PHA 000000792 - PHA 000000793
6/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06074-21, PHA 000000781 - PHA 000000782
6/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06094-21, PHA 000000769 - PHA 000000770
6/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06134-21, PHA 000000760 - PHA 000000761
7/3/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06254-21, PHA 000000736 - PHA 000000737
7/3/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07024-21, PHA 000000746 - PHA 000000747
7/11/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06194-21, PHA 000000726 - PHA
7/15/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07094-21, PHA 000000695 - PHA
7/21/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06164-21, PHA 000000715 - PHA
7/29/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07184-21, PHA 000000684 - PHA
7/31/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H07294-21, PHA 000000704 - PHA
8/7/2014 Johnson & Johnson Raw Material Spec re Talc Powder – RM-008967 Revision 6, JNJTALC000183079
8/15/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08134-21, PHA 000000675 - PHA
8/26/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08224-21, PHA 000000616 - PHA
8/26/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08264-D7, PHA 000000653 - PHA
8/29/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08284-D7, PHA 000000664 - PHA
9/12/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09104-D7, PHA 000000640 - PHA
10/31/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10274-D7, PHA 000000628 - PHA
10/31/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10244-D7, PHA 000000210 - PHA
12/3/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H11304-D7, PHA 000000240 - PHA
12/11/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12094-D7, PHA 000000200 - PHA
12/15/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12114-D7, PHA 000000226 - PHA
12/17/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12154-D7, PHA 000000189 - PHA
1/30/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H012854-D7, PHA 000000170 - PHA
2/2/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H01305-D7, PHA 000000178 - PHA 000000179
2/12/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02105-D7, PHA 000000160 - PHA
2/13/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02125-D7, PHA 000000149 - PHA
2/27/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02245-D7, PHA 000000137 - PHA
2/27/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02205-C4, PHA 000000578 - PHA
2/27/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02205-C4, PHA 000000570 - PHA
2/27/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02235-C4, PHA 000000589 - PHA
3/2/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02255-C4, PHA 000000562 - PHA 000000563
3/2/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02255-C4, PHA 000000558 - PHA 000000558
3/2/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02255-C4, PHA 000000564 - PHA 000000564
3/3/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02275-D7, PHA 000000534 - PHA 000000535
3/24/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H03205-D7, PHA 000000502 - PHA
4/7/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04065-D7, PHA 000000492 - PHA 000000493
4/8/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04075-D7, PHA 000000482 - PHA 000000483
4/17/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04155-D7, PHA 000000470 - PHA
4/24/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04175-D7, PHA 000000456 - PHA
5/5/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05015-D7, PHA 000000447 - PHA 000000448
5/15/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05095-D7, PHA 000000426 - PHA
5/15/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05115-D7, PHA 000000437 - PHA
5/20/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05155-D7, PHA 000000413 - PHA
5/27/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05255-C4, PHA 000000596 - PHA
5/28/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05255-D7, PHA 000000403 - PHA
5/28/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05255-C4, PHA 000000603 - PHA
5/28/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05255-C4, PHA 000000610 - PHA
6/1/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05255-C4, PHA 000000551 - PHA 000000552
6/3/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05295-C4, PHA 000000550 - PHA 000000550
6/4/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H06015-D7, PHA 000000380 - PHA 000000381

6/5/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05295-C4, PHA 000000544 - PHA 000000544
6/29/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H06255-D7, PHA 000000368 - PHA
6/30/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H06285-D7, PHA 000000358 - PHA
7/7/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H06295-D7, PHA 000000350 - PHA 000000351
7/29/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H07295-D7, PHA 000000328 - PHA
8/24/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08205-D7, PHA 000000316 - PHA
9/1/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08275-D7, PHA 000000305 - PHA 000000306
9/24/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09215-D7, PHA 000000294 - PHA
9/28/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09245-D7, PHA 000000272 - PHA
9/30/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09265-D7, PHA 000000283 - PHA
10/19/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10165-D7, PHA 000000263 - PHA
11/5/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10305-D7, PHA 000000392 - PHA
12/7/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12035-D7, PHA 000000251 - PHA
12/9/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12075-D7, PHA 000002838 - PHA
12/14/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12115-D7, PHA 000002827 - PHA
12/14/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12105-D7, PHA 000002863 - PHA
12/21/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12195-D7, PHA 000002884 - PHA
12/22/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12215-D7, PHA 000002905 - PHA
1/19/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H01156-D7, PHA 000002892 - PHA
1/21/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H01186-D7, PHA 000002914 - PHA
1/21/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02036-D7, PHA 000002927 - PHA
2/5/2016 Email from D. Hicks to D. Van Orden re 1Q16 Talc Samples with attachment, JNJ 000521558; JNJ 000521559
2/11/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02056-D7, PHA 000002936 - PHA
2/12/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02106-D7, PHA 000002948 - PHA
2/26/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02256-D7, PHA 000003013 - PHA
3/17/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H03156-D7, PHA 000003023 - PHA
3/18/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H03166-D7, PHA 000003006 - PHA
3/22/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H03186-D7, PHA 000003036 - PHA
3/31/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H03306-D7, PHA 000003041 - PHA
4/6/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04046-D7, PHA 000003072 - PHA 000003073
4/7/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04056-D7, PHA 000003052 - PHA 000003053
4/19/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04156-D7, PHA 000003063 - PHA
4/20/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04176-D7, PHA 000003082 - PHA
5/2/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04286-D7, PHA 000003132 - PHA 000003133
5/4/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05026-D7, PHA 000003143 - PHA 000003144
5/10/2016 Email from D. Hicks to M. Zappa re J&J 2Q16 Talc Samples with attachments, JNJ 000524002; JNJ 000524005
5/13/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05126-D7, PHA 000003122 - PHA
6/1/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05256-D7, PHA 000003152 - PHA 000003153
7/15/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H07136-D7, PHA 000003112 - PHA
8/1/2016 Email from D. Hicks to A. Yaganti re J&J 3Q16 Global Talc Samples with attachments, JNJ 000521577; JNJ
8/3/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08026-D7, PHA 000003161 - PHA 000003162
8/16/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08096-D7, PHA 000003171 - PHA
8/16/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08126-D7, PHA 000003108 - PHA
8/22/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09166-D7, PHA 000003225 - PHA
9/15/2016 Letter from D. Van Orden to D. Hicks re Analysis of Six Talc Samples (3Q16) RJ Lee Group Project No.
9/27/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09266-D7, PHA 000003215 - PHA
10/10/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10086-D7, PHA 000003191 - PHA
10/17/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10156-D7, PHA 000003180 - PHA
10/18/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10166-D7, PHA 000003202 - PHA
10/27/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10256-D7, PHA 000002804 - PHA
11/14/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H11126-D7, PHA 000002793 - PHA
12/16/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12126-D7, PHA 000002783 - PHA
12/20/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12186-D7, PHA 000002763 - PHA
12/21/2016 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12196-D7, PHA 000002957 - PHA

1/16/2017 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H01127-D7, PHA 000002752 - PHA
1/19/2017 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H01177-D7, PHA 000002777 - PHA
1/27/2017 Email from A. Yaganti to D. Van Orden re J&J 1Q17 Global Talc Samples for Testing with attachment,
2/9/2017 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02077-D7, PHA 000002740 - PHA 000002741
2/22/2017 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02197-D7, PHA 000002979 - PHA
2/24/2017 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02177-D7, PHA 000002970 - PHA
3/16/2017 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02177-D7, PHA 000002992 - PHA
4/12/2017 Letter from D. Van Orden to A. Yaganti re analysis of six talc samples (1Q17) RJ Lee Group Project No.
5/4/2017 Email from A. Yaganti to D. Van Orden re J&J 2Q17 Global Talc Samples for Testing with attachment,
6/1/2017 Letter from D. Van Orden to A. Yaganti re analysis of six talc samples (2Q17) RJ Lee Group Project No.
6/9/2017 Email from S. More to A. Yaganti re Talc Testing Concerns with RJ Lee with attachment, JNJTALC000454068;
7/25/2017 Email from A. Yaganti to D. Van Orden re J&J 3Q17 Global Talc Samples for Testing with Attachment,
9/29/2017 D. Van Orden Letter to A. Yaganti re analysis of six talc samples (3Q17) RJ Lee Group Project No. TLH601640
10/26/2017 Email from A. Yaganti to D. Van Orden re J&J 4Q16 Global Talc Samples with attachments,
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11/27/2017 Email from A. Yaganti to D. Van Orden re J&J 4Q17 Global Talc Samples for Testing with attachment,
1/31/2018 Email from A. Yaganti to D. Van Orden re J&J 1Q18 Global Talc Samples for Testing with attachment,
3/14/2018 U.S. Food and Drug Administration, "Talc," available at
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9/20/2019 Letter from L. Katz to L. Szczepaniak re: follow-up to request you made to FDA's Center for Food Safety and
2015 Johnson & Johnson's Code of Business Conduct & Credo
7/2004 Curriculum Vitae of Frederick David Pooley, FDP000000636 - FDP000000654
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Consultant Report to Johnson & Johnson: Analysis of One Talc Sample by SEM/EDS, JNJ 000085079
Consultant Report to Johnson & Johnson: Analysis of One Talc Sample by SEM/EDS, JNJ 000273185; JNJNL61_000033918
Consultant Report to Johnson & Johnson: Analysis of Talc Sample 001316 by SEM/EDS, JNJ 000064771
Consultant Report to Johnson & Johnson: Analysis of Talc Sample 026329 by SEM/EDXA, JNJ 000061636
Consultant Report to Johnson & Johnson: Analysis of Talc Sample 026348 by SEM/EDXA, JNJ 000061567
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Document entitled "Definition of Asbestos," JNJ 000270049
Document entitled "Investigation Products and Asbestos Detected Products," JNJTALC000120731
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Final Report on Shower to Shower, Medicated Powder and Feminine Spray, JOJO-MA2546-00812
Handwritten document with C1 and E8, JOJO-MA5880-0023
Hutchinson's handwritten notes re: Transmission Electron Microscope, JOJO-MA2546-00144
Identification of Chrysotile and Tremolite, JNJTALC000294771
Image of "Tremolite Asbestos, Death Valley," available at http://serc.carleton.edu/research_education/geochemsheets/techniques/SEM.html
Ingredients – Talc, Food & Drug Admin., https://www.fda.gov/Cosmetics/ProductsIngredients/ Ingredients/ucm293184.htm,
Internal J&J Memorandum Identifying the Samples Included in Pooley's Aug. 10, 1971 Report, JNJ 000325709
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Sample RE-73-166, analysis requested by W.T. Caneer, JNJTALC000128496
Summary of Results Transmission Electron Microscopy (TEM) Analytical Data, JNJ 000245548
Summary Table of Results of Four Investigators on Analysis of Commercial Cosmetic Talc Products for Asbestos Minerals,
Table 3 - 8A Amphibole X-Ray Diffraction Data from Composite Samples and Flotation Products, JNJ 000878208
Table IV: Key to Sample Numbers of Cosmetic Talcum-Type Powders, JNJ 000247507
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U.S. Patent No. 4,485,092
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Undated Memo from W. Ashton to G. Lee et al. re: SVC Publication by Gianfranco Villa, JNJ 000088026
Undated report entitled "Mineralogical report," JNJ 000285289
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X-ray Diffraction Study of Johnson & Johnson's Shower to Shower Talcum Powder (Gordon Brown), JNJTALC000348580
Vermont Talc Ore Tailings, JNJ 000289338
Image - Vermont Talc Ore Tailings- 3750X - FP 44, JNJ 000289340
Image - Vermont Talc Ore Tailings - FP 10, JNJ 000289341
Vermont Talc 01062A, JNJ 000289342
Image - Vermont Talc 01062A -10000X - FP 61, JNJ 000289344
Image - Vermont Talc 01062A -FP 60, JNJ 000289345
Vermont Talc 01062A 9,000X FP 62, JNJ 000289346
Vermont Talc 01062A 18,000X FP 36, JNJ 000289347
Vermont Talc 01062A 32,5000X FP 37, JNJ 000289348
Vermont Talc 01062A FP 38, JNJ 000289349
Vermont Talc +2.95 Density Fraction 01062 A 6250X FP 39, JNJ 000289350
Vermont Talc +2.65 Density Fraction 01062 A 3750X FP 40, JNJ 000289351
Vermont Talc 01062A FP2, JNJ 000289352
Vermont Talc 14941B, JNJ 000289353
Vermont Talc 14941B 3750X FP 58, JNJ 000289355
Vermont Talc 14941B 3750X FP 59, JNJ 000289356
Vermont Talc 14941B FP 1, JNJ 000289357

Vermont Talc 15452C, JNJ 000289358
Vermont Talc 15452C 3750X FP 45, JNJ 000289359
Vermont Talc 15452C FP 48, JNJ 000289360
Vermont Talc 15452C 10000X FP 47, JNJ 000289361
Vermont Talc 15452C 3750X FP 42, JNJ 000289362
Vermont Talc 15452C 3750X FP 41, JNJ 000289363
Vermont Talc 15452C FP 46, JNJ 000289364
Vermont Talc 15452C FP 7, JNJ 000289365
Vermont Talc +2.65 Density Fraction 15452C FP 9, JNJ 000289366
Vermont Talc +2.95 Density Fraction 15452C FP 8, JNJ 000289367
Vermont Tal 13163D, JNJ 000289368
Vermont Tal 13163D 3750X FP 56, JNJ 000289370
Vermont Tal 13163D 3750X FP 57, JNJ 000289371
Vermont Tal 13163D FP 55, JNJ 000289372
Vermont Talc 10265F, JNJ 000289373
Vermont Talc 10265F 15000X FP 53, JNJ 000289375
Vermont Talc 10265F 10000X FP 51, JNJ 000289376
Vermont Talc 10265F FP 52, JNJ 000289377
Vermont Talc 10265F 20000X FP 54, JNJ 000289378
Vermont Talc 10265F FP 5, JNJ 000289379
Vermont Talc 10361G, JNJ 000289380
Vermont Talc 10361G 3750X FP 49, JNJ 000289382
Vermont Talc 10361G FP 50, JNJ 000289383
Vermont Talc 344L, JNJ 000289384
Vermont Talc 344L 3750X FP 13, JNJ 000289386
Vermont Talc 344L FP 6, JNJ 000289387
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RJLG Review 11730AB1531
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RJLG Review 11730AB1534
RJLG Review 11730AB1535
RJLG Review 11730AB1537
RJLG Review 11730AB1540
RJLG Review 11730AB1542
RJLG Review 11730AB1543
RJLG Review 11730AB1544
RJLG Review 11730AB1545
RJLG Review M65205-001_101517
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RJLG Review M65329-041_101517
RJLG Review M65329-043_101517
RJLG Review M66173-002_101517
RJLG Review M66173-003_101517
RJLG Review M66203-001_101517
RJLG Review M66203-006_101517
RJLG Review M66203-007_101517
RJLG Review M66352-002_101517
RJLG Review M66405-001_101517
RJLG Review M66510-001_101517
RJLG Review M66512-001_101517

RJLG Review M66514-001_091418
RJLG Review M66515-001_101517
RJLG Review M66516-001_101517
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McCrone (6-Month Ore Study): Tests of Hammondsville Ore Composites
DX7099 - JNJ000338317
DX8621 - WTALC00004586
DX8814 - JNJTALC000298680
McCrone: Ore Testing Conducted by TEM
DX7700 - WTALC00002674
DX7702 - WTALC00002695
DX7704 - WTALC00002712
DX7705 - WTALC00002745
DX8622 - JNJTALC000387660
DX8623 - WTALC00002762
DX8624 - JNJ000684541
DX8625 - JNJTALC000387515
DX8813 - JNJTALC000387656
DX8815 - JNJTALC000387334
DX8816 - JNJ000347203
McCrone/Bain: TEM Float Feed Testing (WMI, CWN, LAI SAMPLES)
DX7219 - JNJ000292059
DX7222 - JNJ000292058
DX7247 - JNJ000280846
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DX7406 - JNJ000280788
DX7408 - JNJ000280783
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DX8599 - JNJTALC000387211
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DX8603 - JNJTALC000387182
DX8604 - JNJ000063284
DX8605 - JNJTALC000387140
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DX8608 - JNJTALC000387143
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DX8673 - JNJ000280754
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DX8679 - JNJ000280759
DX8680 - JNJ000280761
DX8688 - JNJ000280826
DX8690 - JNJTALC000071270
J&J Weekly Testing of Product (XRD)
DX7091 - JNJ000264752
DX7302 - JNJ000245520
DX8122 - JNJ000223428
DX8125 - JNJ000237249
DX8127 - JNJ000245537
DX8415 - JNJ000266679
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DX8547 - JNJ000264673
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DX8585 - JNJ000237334
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DX8589 - JNJ000237310
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DX8592 - JNJ000237293
DX8593 - JNJ000237285
DX8595 - JNJ000324759
DX8596 - JNJ000245526
ES Labs: J4-1 Testing of Product (XRD/PLM)
DX7522 - JNJ000246164
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DX8507 - JNJTALC000217256
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DX7923 - JNJ000683571
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McCrone/Bain: Quarterly TEM Testing for Serpentine Asbestos
DX7142 - JNJ000300405
DX7188 - JNJTALC000070307
DX7193 - JNJ000237325
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DX8442 - JNJTALC001272501

DX8443 - JNJ000237275
DX8444 - JNJ000237278
Worldwide Talc Surveys (Various Tests by Various Entities)
DX7381 - JNJTALC000166630
DX7409 - JNJ 000089078
DX7721 - JNJTALC000348700; JNJTALC000348703
DX8535 - JNJ 000061342
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DX8541 - JNJTALC000166716
DX8543 - JNJTALC000166736
DX8545 - JNJTALC000166745
RJ Lee Group: Quarterly Testing - TEM, XRD, PLM
RJLG Quarterly Reports 4Q2022
RJLG Quarterly Reports 3Q2022
RJLG Quarterly Reports 2Q2022
RJLG Quarterly Reports 1Q2022
RJLG Quarterly Reports 4Q2021
RJLG Quarterly Reports 3Q2021
RJLG Quarterly Reports 2Q2021
RJLG Quarterly Reports 1Q2021
RJLG Quarterly Reports 4Q2020
RJLG Quarterly Reports 3Q2020
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RJLG Quarterly Reports 1Q2020
DX7435 - JNJ 000132159
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DX7440 - JNJ 000381001
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DX8962 - JNJTALC001389105
DX8963 - JNJTALC001389361
DX8964 - JNJTALC001353867
DX8965 - JNJTALC001391321
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10/27/2019 Preliminary BV Report on Lot #22318RB Samples, JNJTALC001282631
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8/2/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07221-21, PHA 000001602 - PHA 000001602
8/9/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H070301-21, PHA 000001592 - PHA
8/11/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08011-21, PHA 000001579 - PHA
8/15/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08071-21, PHA 000001570 - PHA
8/16/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08121-21, PHA 000001548 - PHA
8/18/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08141-21, PHA 000001556 - PHA
8/25/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08221-21, PHA 000001524 - PHA
8/26/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08201-21, PHA 000001535 - PHA
9/9/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09041-21, PHA 000001501 - PHA 000001501
9/14/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H9091-21, PHA 000001513 - PHA 000001513
9/14/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08241-21, PHA 000001712 - PHA
9/19/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09171-21, PHA 000002125 - PHA
9/19/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09151-21, PHA 000002143 - PHA
9/22/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09191-21, PHA 000002133 - PHA
9/28/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09201-21, PHA 000002070 - PHA
9/29/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09261-21, PHA 000002109 - PHA
10/3/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09301-21, PHA 000002115 - PHA
10/10/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10021-21, PHA 000002079 - PHA
10/12/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10041-21, PHA 000002098 - PHA
10/13/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10061-21, PHA 000002088 - PHA
10/17/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10121-21, PHA 000002060 - PHA
10/26/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10221-21, PHA 000002051 - PHA
11/8/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10231-21, PHA 000002039 - PHA
11/11/2011 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H11081-21, PHA 000002031 - PHA
6/5/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05262-21, PHA 000002336 - PHA 000002336
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6/26/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06232-21, PHA 000002251 - PHA
6/26/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06182-21, PHA 000002262 - PHA
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7/30/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07162-21, PHA 000002306 - PHA
7/30/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07192-21, PHA 000002316 - PHA

8/8/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08042-21, PHA 000002282 - PHA 000002282
8/14/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08102-21, PHA 000002295 - PHA
8/14/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08172-21, PHA 000002272 - PHA
8/27/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08192-21, PHA 000002199 - PHA
9/4/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08292-21, PHA 000002231 - PHA 000002231
9/13/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09012-21, PHA 000002221 - PHA
9/26/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09022-21, PHA 000002189 - PHA
10/5/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09272-21, PHA 000002178 - PHA
10/16/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10122-21, PHA 000002169 - PHA
10/23/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10062-21, PHA 000001232 - PHA
11/29/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10302-21, PHA 000001222 - PHA
12/11/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H11042-21, PHA 000001212 - PHA
12/14/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H12032-21, PHA 000001174 - PHA
12/28/2012 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H12102-21, PHA 000001205 - PHA
1/11/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H12282-21, PHA 000001184 - PHA
1/13/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H01243-21, PHA 000001155 - PHA
2/28/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H02253-21, PHA 000001144 - PHA
3/19/2013 Cosmetic Ingredient Review's Safety Assessment of Talc as Used in Cosmetics
3/21/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03053-21, PHA 000001135 - PHA
3/22/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03143-21, PHA 000001125 - PHA
3/27/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03213-21, PHA 000001116 - PHA
4/11/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04053-21, PHA 000001076 - PHA
4/19/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04123-21, PHA 000001087 - PHA
4/24/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04213-21, PHA 000001107 - PHA
5/1/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04263-21, PHA 000001097 - PHA 000001097
5/10/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05053-21, PHA 000001066 - PHA
5/14/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05073-21, PHA 000001056 - PHA
5/22/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05143-21, PHA 000001046 - PHA
5/23/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05143-21, PHA 000001045 - PHA
5/23/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05163-21, PHA 000001033 - PHA
5/31/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05213-21, PHA 000001024 - PHA
6/6/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05303-21, PHA 000001012 - PHA 000001012
6/7/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06053-21, PHA 000001334 - PHA 000001334
6/11/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06083-21, PHA 000001325 - PHA
6/20/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06103-21, PHA 000001303 - PHA
6/21/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06133-21, PHA 000001314 - PHA
6/28/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06213-21, PHA 000001293 - PHA
7/10/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06283-21, PHA 000001283 - PHA
7/24/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07033-21, PHA 000001345 - PHA
7/29/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07243-21, PHA 000001273 - PHA
8/9/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07183-21, PHA 000001437 - PHA 000001437
8/15/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08023-21, PHA 000001263 - PHA
8/28/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08163-21, PHA 000001254 - PHA
9/6/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08283-21, PHA 000001447 - PHA 000001447
9/9/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H08133-21, PHA 000001418 - PHA 000001418
9/26/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H09243-HC, PHA 000001458 - PHA
9/30/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09103-21, PHA 000001367 - PHA
9/30/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H09123-21, PHA 000001355 - PHA
10/11/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10023-21, PHA 000001427 - PHA
10/22/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10113-21, PHA 000001407 - PHA
10/29/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10213-21, PHA 000001378 - PHA
10/31/2013 Email from T. Hagen to J. Roberts re: JnJ - Imerys Talc Chain of Custody from Mine Source in China to Houston
11/15/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H10303-21, PHA 000001399 - PHA

11/27/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H11153-21, PHA 000001387 - PHA
12/5/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H11273-21, PHA 000001003 - PHA
12/13/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H112093-21, PHA 000000962 - PHA
12/16/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H112113-21, PHA 000000993 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12053-C4, PHA 000001494 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12183-C4, PHA 000001463 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12143-C4, PHA 000001472 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12143-C4, PHA 000001474 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12053-C4, PHA 000001484 - PHA
12/18/2013 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H12053-C4, PHA 000001487 - PHA
12/23/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H112173-21, PHA 000000973 - PHA
12/23/2013 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H112203-21, PHA 000000983 - PHA
1/10/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01084-C4, PHA 000000101 - PHA
1/10/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01084-C4, PHA 000000099 - PHA
1/10/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01084-C4, PHA 000000103 - PHA
1/17/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H01054-21, PHA 000000954 - PHA
1/31/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H01214-21, PHA 000000945 - PHA
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02054-C4, PHA 000000123 - PHA 000000123
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01284-C4, PHA 000000132 - PHA 000000132
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02054-C4, PHA 000000124 - PHA 000000124
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01284-C4, PHA 000000131 - PHA 000000131
2/6/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01284-C4, PHA 000000130 - PHA 000000130
2/7/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01314-C4, PHA 000000116 - PHA 000000117
2/7/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02064-C4, PHA 000000109 - PHA 000000109
2/7/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01314-C4, PHA 000000118 - PHA 000000118
2/7/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02064-C4, PHA 000000110 - PHA 000000110
2/25/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03064-21, PHA 000000925 - PHA
2/25/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H02044-21, PHA 000000934 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H01314-C4, PHA 000000089 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02224-C4, PHA 000000010 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02224-C4, PHA 000000004 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02224-C4, PHA 000000015 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02254-C4, PHA 000000023 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02254-C4, PHA 000000024 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02254-C4, PHA 000000025 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02264-C4, PHA 000000062 - PHA
2/27/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02064-C4, PHA 000000068 - PHA
3/13/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03084-21, PHA 000000915 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03094-C4, PHA 000000083 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03114-C4, PHA 000000036 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03114-C4, PHA 000000037 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03114-C4, PHA 000000038 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03094-C4, PHA 000000084 - PHA
3/20/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03094-C4, PHA 000000082 - PHA
3/21/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03154-C4, PHA 000000056 - PHA
3/21/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03154-C4, PHA 000000057 - PHA
3/21/2014 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H03154-C4, PHA 000000055 - PHA
3/24/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03174-21, PHA 000000904 - PHA
4/1/2014 FDA’s 2014 denial of Citizen’s Petition requesting warning on talcum powder products and related correspondence
4/1/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03244-21, PHA 000000894 - PHA 000000894
4/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H03304-21, PHA 000000863 - PHA 000000863
4/14/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04114-21, PHA 000000884 - PHA
4/15/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04124-21, PHA 000000854 - PHA

4/24/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04174-21, PHA 000000815 - PHA
4/25/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04224-21, PHA 000000845 - PHA
5/20/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H04294-21, PHA 000000874 - PHA
5/22/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05154-21, PHA 000000834 - PHA
5/27/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05214-21, PHA 000000824 - PHA
6/5/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H05234-21, PHA 000000803 - PHA 000000804
6/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06054-21, PHA 000000792 - PHA 000000793
6/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06074-21, PHA 000000781 - PHA 000000782
6/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06094-21, PHA 000000769 - PHA 000000770
6/9/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06134-21, PHA 000000760 - PHA 000000761
7/3/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06254-21, PHA 000000736 - PHA 000000737
7/3/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07024-21, PHA 000000746 - PHA 000000747
7/11/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06194-21, PHA 000000726 - PHA
7/15/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07094-21, PHA 000000695 - PHA
7/21/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H06164-21, PHA 000000715 - PHA
7/29/2014 Certificate of Analysis - Product Code: GRD25M01H; Product Lot: H07184-21, PHA 000000684 - PHA
7/31/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H07294-21, PHA 000000704 - PHA
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8/15/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08134-21, PHA 000000675 - PHA
8/26/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08224-21, PHA 000000616 - PHA
8/26/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08264-D7, PHA 000000653 - PHA
8/29/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08284-D7, PHA 000000664 - PHA
9/12/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09104-D7, PHA 000000640 - PHA
10/31/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10274-D7, PHA 000000628 - PHA
10/31/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H10244-D7, PHA 000000210 - PHA
12/3/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H11304-D7, PHA 000000240 - PHA
12/11/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12094-D7, PHA 000000200 - PHA
12/15/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12114-D7, PHA 000000226 - PHA
12/17/2014 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H12154-D7, PHA 000000189 - PHA
1/30/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H012854-D7, PHA 000000170 - PHA
2/2/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H01305-D7, PHA 000000178 - PHA 000000179
2/12/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02105-D7, PHA 000000160 - PHA
2/13/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02125-D7, PHA 000000149 - PHA
2/27/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02245-D7, PHA 000000137 - PHA
2/27/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02205-C4, PHA 000000578 - PHA
2/27/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02205-C4, PHA 000000570 - PHA
2/27/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02235-C4, PHA 000000589 - PHA
3/2/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02255-C4, PHA 000000562 - PHA 000000563
3/2/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02255-C4, PHA 000000558 - PHA 000000558
3/2/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H02255-C4, PHA 000000564 - PHA 000000564
3/3/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H02275-D7, PHA 000000534 - PHA 000000535
3/24/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H03205-D7, PHA 000000502 - PHA
4/7/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04065-D7, PHA 000000492 - PHA 000000493
4/8/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04075-D7, PHA 000000482 - PHA 000000483
4/17/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04155-D7, PHA 000000470 - PHA
4/24/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H04175-D7, PHA 000000456 - PHA
5/5/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05015-D7, PHA 000000447 - PHA 000000448
5/15/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05095-D7, PHA 000000426 - PHA
5/15/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05115-D7, PHA 000000437 - PHA
5/20/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05155-D7, PHA 000000413 - PHA
5/27/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05255-C4, PHA 000000596 - PHA
5/28/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H05255-D7, PHA 000000403 - PHA
5/28/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05255-C4, PHA 000000603 - PHA
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6/3/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05295-C4, PHA 000000550 - PHA 000000550
6/4/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H06015-D7, PHA 000000380 - PHA 000000381
6/5/2015 Certificate of Analysis - Product Code: GRD25P8UH; Product Lot: H05295-C4, PHA 000000544 - PHA 000000544
6/29/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H06255-D7, PHA 000000368 - PHA
6/30/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H06285-D7, PHA 000000358 - PHA
7/7/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H06295-D7, PHA 000000350 - PHA 000000351
7/29/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H07295-D7, PHA 000000328 - PHA
8/24/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08205-D7, PHA 000000316 - PHA
9/1/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H08275-D7, PHA 000000305 - PHA 000000306
9/24/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09215-D7, PHA 000000294 - PHA
9/28/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09245-D7, PHA 000000272 - PHA
9/30/2015 Certificate of Analysis - Product Code: GRD25P01H; Product Lot: H09265-D7, PHA 000000283 - PHA
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DX8595 - JNJ000324759
DX8596 - JNJ000245526
ES Labs: J4-1 Testing of Product (XRD/PLM)
DX7522 - JNJ000246164
DX7523 - JNJ000246190

DX7524 - JNJ000246218
DX7525 - JNJ000246226
DX7526 - JNJ000284309
DX7527 - JNJ000284272
DX7528 - JNJ000246268
DX7529 - JNJ000246276
DX7530 - JNJ000246289
DX7531 - JNJ000246304
DX7533 - JNJ000246314
DX7534 - JNJ000246319
DX7535 - JNJ000246261
DX7536 - JNJ000246255
DX7537 - JNJ000246245
DX7538 - JNJ000246250
DX8439 - JNJ000060818
DX8445 - JNJ000246159
DX8446 - JNJ000246182
DX8447 - JNJ000246272
DX8448 - JNJ000246280
DX8449 - JNJ000246294
DX8450 - JNJ000246309
DX8451 - JNJ000246329
DX8452 - JNJ000266519
DX8453 - JNJ000266524
DX8454 - JNJ000266529
DX8455 - JNJ000266534
DX8456 - JNJ000266544
DX8457 - JNJ000266554
DX8458 - JNJ000266559
DX8460 - JNJ000266587
DX8461 - JNJ000266592
DX8462 - JNJ000266597
DX8463 - JNJ000266602
DX8464 - JNJ000266607
DX8465 - JNJ000266612
DX8466 - JNJ000266617
DX8467 - JNJ000266622
DX8468 - JNJ000266627
DX8469 - JNJ000266632
DX8470 - JNJ000266637
DX8471 - JNJ000266642
DX8472 - JNJ000266647
DX8473 - JNJ000266651
DX8474 - JNJ000266656
DX8475 - JNJTALC001272503
DX8477 - JNJ000284275
DX8478 - JNJ000284303
DX8479 - JNJ000284306
DX8480 - JNJ000284337
DX8484 - JNJ000266539
DX8485 - JNJ000266549
DX8486 - JNJ000266564
DX8487 - JNJ000266569

DX8488 - JNJTALC000217062
DX8489 - JNJTALC000217067
DX8490 - JNJTALC000217111
DX8491 - JNJTALC000217126
DX8492 - JNJTALC000217155
DX8493 - JNJTALC000217164
DX8494 - JNJTALC000217169
DX8496 - JNJTALC000217211
DX8497 - JNJTALC000217215
DX8507 - JNJTALC000217256
DX8508 - JNJTALC000217264
DX8509 - JNJTALC000217276
DX8510 - JNJTALC000217284
Imerys Ore Testing - J4-1 / USP
DX7923 - JNJ000683571
DX7925 - JNJ000683574
DX7926 - JNJ000683575
DX7927 - JNJ000683576
DX7928 - JNJ000280872
DX7929 - JNJ000683577
DX7930 - JNJ000280871
DX7931 - JNJ000683578
DX7932 - JNJ000280884
DX7933 - JNJ000683580
DX7934 - JNJ000280883
DX7935 - JNJTALC000071281
DX7936 - JNJ000280882
DX7937 - JNJTALC000071282
DX7938 - JNJ000280881
DX7939 - JNJ000280880
DX7940 - JNJ000683566
DX7941 - JNJ000280870
DX7942 - JNJ000683561
DX7943 - JNJ000280879
DX7944 - JNJ000683560
DX7946 - JNJTALC000023169
DX7947 - JNJ000578021
DX7948 - JNJ000578022
DX7949 - JNJ000578023
DX7950 - JNJTALC000376771
DX7951 - JNJ000578019
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DX7953 - JNJ000578028
DX7954 - JNJ000578030
DX7955 - JNJ000578029
DX7956 - JNJ000577843
DX7958 - JNJ000578026
DX7959 - JNJ000683948
DX8634 - JNJ000683573
McCrone/Bain: Quarterly TEM Testing for Serpentine Asbestos
DX7142 - JNJ000300405

DX7188 - JNJTALC000070307
DX7193 - JNJ000237325
DX7196 - JNJ000237316
DX7209 - JNJ000237304
DX7213 - JNJ000266499
DX7217 - JNJ000266503
DX7230 - JNJ000237245
DX7283 - JNJ000237243
DX7541 - JNJ000237232
DX8117 - JNJ000237246
DX8118 - JNJ000237247
DX8119 - JNJ000237248
DX8120 - JNJ000237240
DX8121 - JNJ000223429
DX8123 - JNJ000237242
DX8126 - JNJ000245524
DX8128 - JNJ000375819
DX8129 - JNJ000375820
DX8130 - JNJ000375821
DX8131 - JNJ000375817
DX8132 - JNJ000239635
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DX8134 - JNJ000239637
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DX8169 - JNJ000266504
DX8170 - JNJ000347015
DX8171 - JNJ000266670
DX8172 - JNJ000285154
DX8173 - JNJ000237321
DX8174 - JNJ000285111
DX8175 - JNJ000285446
DX8176 - JNJ000266500
DX8177 - JNJ000266479
DX8178 - JNJ000266428
DX8179 - JNJ000065570
DX8180 - JNJ000266448
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DX8183 - JNJ000239825
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DX8186 - JNJ000239634
DX8187 - JNJ000237347
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DX8423 - JNJ000237298
DX8424 - JNJ000285131
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DX8427 - JNJTALC001272572
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DX8431 - JNJ000246135
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DX8433 - JNJ000324762
DX8434 - JNJ000324795
DX8440 - JNJ000237227
DX8441 - JNJ000237229
DX8442 - JNJTALC001272501
DX8443 - JNJ000237275
DX8444 - JNJ000237278
Worldwide Talc Surveys (Various Tests by Various Entities)
DX7381 - JNJTALC000166630
DX7409 - JNJ 000089078
DX7721 - JNJTALC000348700; JNJTALC000348703
DX8535 - JNJ 000061342
DX8536 - JNJTALC000348670
DX8537 - JNJTALC000348694
DX8538 - JNJTALC000166674
DX8539 - JNJTALC000348794
DX8540 - JNJTALC000166705
DX8541 - JNJTALC000166716
DX8543 - JNJTALC000166736
DX8545 - JNJTALC000166745
RJ Lee Group: Quarterly Testing - TEM, XRD, PLM
RJLG Quarterly Reports 4Q2022
RJLG Quarterly Reports 3Q2022
RJLG Quarterly Reports 2Q2022
RJLG Quarterly Reports 1Q2022
RJLG Quarterly Reports 4Q2021
RJLG Quarterly Reports 3Q2021
RJLG Quarterly Reports 2Q2021
RJLG Quarterly Reports 1Q2021
RJLG Quarterly Reports 4Q2020
RJLG Quarterly Reports 3Q2020
RJLG Quarterly Reports 2Q2020
RJLG Quarterly Reports 1Q2020
DX7435 - JNJ 000132159
DX7437 - JNJ 000134313
DX7438 - JNJ 000382024
DX7439 - JNJ 000134197
DX7440 - JNJ 000381001
DX7441 - JNJ 000134159
DX7442 - JNJ 000384469
DX7443 - JNJ 000384502
DX7444 - JNJ 000384551
DX7445 - JNJ 000134075
DX7448 - JNJ 000134009
DX7449 - JNJ 000382986
DX7450 - JNJ 000133797
DX7452 - JNJ 000383338
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DX8054 - JNJ 000631351
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DX8156 - JNJTALC000196576
DX8157 - JNJTALC000196176
DX8158 - JNJTALC000196252
DX8435 - JNJ 000558343
DX8801 - JNJ 000134054
DX8919 - JNJTALC001084921
DX8920 - JNJTALC001054034
DX8921 - JNJTALC001082577
DX8922 - JNJTALC001083855
DX8962 - JNJTALC001389105
DX8963 - JNJTALC001389361
DX8964 - JNJTALC001353867
DX8965 - JNJTALC001391321
FDA Related Documents
10/11/2019 Report by AMA Analytical Services, Inc, JNJTALC001292442
10/18/2019 J&J to Voluntarily Recall A Single Lot of Johnson's Baby Powder in the United States
10/27/2019 Preliminary BV Report on Lot #22318RB Samples, JNJTALC001282631
10/28/2019 RJLG Report on Lot #22318RB Samples, JNJTALC001285467
10/28/2019 RJLG Incidence Report, JNJTALC001285569
10/28/2019 FDA, Baby powder manufacturer voluntarily recalls products for asbestos
10/29/2019 RJLG Report on FDA Bottle samples, JNJTALC001286078
10/29/2019 RJLG Report on Surrounding Bottle Lots, JNJTALC001286137
10/29/2019 15 New Tests from the Same Bottle of Johnson's Baby Powder Previously Tested by FDA Find No Asbestos
11/1/2019 Bureau Veritas Interim Report re: Lot #22318RB, JNJTALC001285872
11/5/2019 RJLG Report on Additional FDA Bottle sample testing, JNJTALC001286219
11/27/2019 Bureau Veritas Final Report, JNJTALC001285875
12/3/2019 Company Investigation Confirms No Asbestos in Johnson's Baby Powder: More Than 150 Tests Show No Asbestos
12/3/2019 Summary of Investigation, JNJTALC001286606
12/3/2019 J&J Recall Investigation Report, JNJTALC001284148
8/18/2020 FDA Issues Update Regarding Information Presented at Talc Public Meeting

RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

April 1, 2024

Mr. Kevin Hynes
King & Spalding LLP
1185 6th Avenue
New York, NY 10036

Re: Review of Expert Report of Dr. David A. Kessler MD in the matters of *Diana Balderrama and Gilbert Balderrama v. Johnson & Johnson, et al. and Brandi Carl and Joel Carl v. Johnson & Johnson, et al*.

I have been asked to review and provide comments regarding the geological and mineralogical opinions of Dr. Kessler, MD as articulated in paragraphs 80 through 140, 161 through 168.5, and 201 through 203.7 of his expert report dated November 15, 2023.

Dr. Kessler's opinions on geology and testing are without a sound basis. I have specifically addressed what is and is not asbestos as established in both the scientific and regulatory literature in my expert reports on behalf of Johnson & Johnson. I also address the specific geologic formation conditions for the talc sources used by Johnson & Johnsons for the United States market, namely Val Germanasca, Italy; Southern Vermont, USA; and Guangxi, China. I also address my testing of actual Johnson & Johnson talcum-based and Shower to Shower products derived from these sources.

To suggest that Johnson & Johnson only relied upon CTFA J4-1 methodology is factually inaccurate; since the early 1970s, transmission election microscopy was employed to screen finished milled talc with detection limits well below that of XRD and further, the TEM based testing used by Johnson & Johnson starting in the early 1970s was for the analysis of both chrysotile and amphibole type asbestos.

The work of Mr. Bradley van Gosen of the USGS is selectively quoted throughout Dr. Kessler's report. Mr. Van Gosen studied various talc deposits in the US and published these results in 2004: he and his USGS colleagues characterized and identified amphibole and amphibole asbestos in certain Death Valley, California talc deposits (which are not at issue in this case). That work followed the nomenclature of Campbell et al. (1977) and Perkins and Harvey (1993). If Dr. Kessler was to be consistent, he would apply the same recommendations in his own interpretation of historical testing and other geologic and mineralogic based opinions. Using these recommendations, none of the amphiboles observed in testing of the actual products at issue post-1950 or mine sources are consistent with findings of asbestos.

Further, I have in fact performed the work suggested and cited by Dr. Kessler in public comments made by Mr. Van Gosen in paragraph 83.14. In performing said work, I have not found chrysotile

or amphibole asbestos associated with the talc ores or finished products associated with the mines at issue for Johnson & Johnson.

To the extent that Dr. Kesseler will be offering any geologic, mineralogical, and analytical testing opinions at time of trial, I reserve my right to respond to those specific opinions.

Sincerely,

Matt S

Matthew S. Sanchez, PhD
Principal Investigator
msanchez@rjleegroup.com

RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

April 1, 2024

Mr. Kevin Hynes
King & Spalding LLP
1185 6th Avenue
New York, NY 10036

Re: Review of Expert Report of Dr. William Sage MD in the matters of *Diana Balderrama and Gilbert Balderrama v. Johnson & Johnson, et al. and Brandi Carl and Joel Carl v. Johnson & Johnson, et al*.

I have been asked to review and provide comments regarding the geological, mineralogical, and analytical testing opinions of Dr. Sage, MD as articulated in paragraphs 50 through 61 and 116 through 125 of his expert report dated November 15, 2023.

Dr. Sage's opinions on geology, mineralogy, and analytical testing are without a sound basis. I have specifically addressed what is and is not asbestos as established in both the scientific and regulatory literature in my expert reports on behalf of Johnson & Johnson. I also address the specific geologic formation conditions for the talc sources used by Johnson & Johnsons for the United States market, namely Val Germanasca, Italy; Southern Vermont, USA; and Guangxi, China. I also address my testing of actual Johnson & Johnson talcum-based products derived from these sources.

To suggest that Johnson & Johnson only relied upon CTFA J4-1 methodology is factually inaccurate; since the early 1970s, transmission election microscopy was employed to screen finished milled talc with detection limits well below that of XRD and well below 0.5 to 1.0 percent by weight levels. In fact, the TEM based testing used by Johnson & Johnson starting in the early 1970s was for the analysis of both chrysotile and amphibole type asbestos.

Reliance on any findings of Cralley 1968 is without merit as Cralley is using PCM techniques which are incapable of mineral identification. Any suggestion of Cralley that amphibole asbestos was present is pure conjecture.

The purposed 1973 FDA PLM method is incapable of mineral identification and thus in fact not practical to its intended purpose and was withdrawn. Any suggestion that current PLM methodologies are the same as that proposed in 1973 is not factually accurate. Further, I have tested talc ores and finished products of Johnson & Johnson utilizing today's state of the art testing methodologies and have not detected asbestos with one exception of a talc drawn from a bottle from World War II. Further, RJLG was unable to verify the findings of the FDA in the same lot in 2019 as discussed in my expert report and cited documents.

To the extent that Dr. Sage will be offering any geologic, mineralogical, and analytical testing opinions at time of trial, I reserve my right to respond to those specific opinions.

Sincerely,

Matt S

Matthew S. Sanchez, PhD
Principal Investigator
msanchez@rjleegroup.com